

SEQUENCE LISTING

<110> ISIS INNOVATION LIMITED
 ANDERSON, Robert Paul
 HILL, Adrian Vivian Sinton
 JEWELL, Derek Parry

<120> THERAPEUTIC EPITOPES AND USES THEREOF

<130> 142769 / P035468WO

<140> PCT/GB03/02450

<141> 2003-06-05

<150> GB 0212885.8

<151> 2002-06-05

<160> 758

<170> SeqWin99, version 1.02

<210> 1

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 1

Pro Gln Pro Glu Leu Pro Tyr

1 5

<210> 2

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 2

Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro Gln

1 5 10 15

Ser

<210> 3

<211> 266

<212> PRT

<213> Homo sapiens

<400> 3

Val Arg Val Pro Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln Gln

1 5 10 15

Gln Pro Gln Glu Gln Val Pro Leu Val Gln Gln Gln Gln Phe Pro Gly

20 25 30

Gln Gln Gln Gln Phe Pro Pro Gln Gln Pro Tyr Pro Gln Pro Gln Pro

35					40					45					
Phe	Pro	Ser	Gln	Gln	Pro	Tyr	Leu	Gln	Leu	Gln	Pro	Phe	Pro	Gln	Pro
	50					55					60				
Gln	Leu	Pro	Tyr	Pro	Gln	Pro	Gln	Ser	Phe	Pro	Pro	Gln	Gln	Pro	Tyr
65					70					75					80
Pro	Gln	Pro	Gln	Pro	Gln	Tyr	Ser	Gln	Pro	Gln	Gln	Pro	Ile	Ser	Gln
				85					90					95	
Gln	Gln	Ala	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln
			100					105					110		
Gln	Ile	Leu	Gln	Gln	Ile	Leu	Gln	Gln	Gln	Leu	Ile	Pro	Cys	Met	Asp
	115						120					125			
Val	Val	Leu	Gln	Gln	His	Asn	Ile	Ala	His	Ala	Arg	Ser	Gln	Val	Leu
	130					135					140				
Gln	Gln	Ser	Thr	Tyr	Gln	Leu	Leu	Gln	Glu	Leu	Cys	Cys	Gln	His	Leu
145					150					155					160
Trp	Gln	Ile	Pro	Glu	Gln	Ser	Gln	Cys	Gln	Ala	Ile	His	Asn	Val	Val
				165					170					175	
His	Ala	Ile	Ile	Leu	His	Gln	Gln	Gln	Lys	Gln	Gln	Gln	Gln	Pro	Ser
			180					185					190		
Ser	Gln	Val	Ser	Phe	Gln	Gln	Pro	Leu	Gln	Gln	Tyr	Pro	Leu	Gly	Gln
		195					200					205			
Gly	Ser	Phe	Arg	Pro	Ser	Gln	Gln	Asn	Pro	Gln	Ala	Gln	Gly	Ser	Val
	210					215					220				
Gln	Pro	Gln	Gln	Leu	Pro	Gln	Phe	Glu	Glu	Ile	Arg	Asn	Leu	Ala	Leu
225					230					235					240
Gln	Thr	Leu	Pro	Ala	Met	Cys	Asn	Val	Tyr	Ile	Ala	Pro	Tyr	Cys	Thr
				245					250					255	
Ile	Ala	Pro	Phe	Gly	Ile	Phe	Gly	Thr	Asn						
		260						265							

<210> 4
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 4
 Pro Gln Pro Gln Leu Pro Tyr
 1 5

<210> 5
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide
 <400> 5
 Leu Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro
 1 5 10 15
 Gln Ser Phe Pro
 20

<210> 6
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide
 <400> 6
 Glu Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro Gln
 1 5 10 15
 Ser

<210> 7
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide
 <400> 7
 Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro Glu
 1 5 10 15
 Ser

<210> 8
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide
 <400> 8
 Glu Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro Glu
 1 5 10 15
 Ser

<210> 9
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>

<223> peptide

<400> 9

Gln Pro Gln Leu Pro

1 5

<210> 10

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 10

Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro Gln

1 5 10 15

Ser

<210> 11

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 11

Leu Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro

1 5 10 15

Gln Ser Phe Pro

20

<210> 12

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 12

Pro Gln Leu Pro Tyr

1 5

<210> 13

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 13

Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr

1 5 10

<210> 14

<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 14
Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln
1 5 10

<210> 15
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 15
Pro Arg Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp
1 5 10

<210> 16
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 16
Ile Asp Val Trp Leu Gly Gly Leu Leu Ala Glu Asn Phe Leu Pro Tyr
1 5 10 15

<210> 17
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 17
Pro Gln Pro Gln Pro Phe Pro Pro Glu Leu Pro Tyr Pro Gln Pro Gln
1 5 10 15

Ser

<210> 18
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 18
Phe Pro Gln Pro Gln Leu Pro Tyr Pro

1 5

<210> 19
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 19
 Phe Pro Gln Pro Gln Gln Pro Phe Pro
 1 5

<210> 20
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 20
 Pro Gln Gln Pro Gln Gln Pro Phe Pro
 1 5

<210> 21
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 21
 Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln
 1 5 10

<210> 22
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 22
 Leu Gln Pro Glu Asn Pro Ser Gln Glu Gln Pro Glu
 1 5 10

<210> 23
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<220>
 <222> 1-7 and 12-17
 <223> Xaa is any amino acid

<220>
<222> 10
<223> Xaa is Ile, Leu, Met or Pro

<220>
<222> 11
<223> Xaa is Pro, Ser or Thr

<400> 23
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Gln Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa

<210> 24
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 24
Val Leu Gln Gln His Asn Ile Ala His Gly Ser Ser Gln Val Leu Gln
1 5 10 15

Glu Ser Thr Tyr
20

<210> 25
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 25
Ile Lys Asp Phe His Val Tyr Phe Arg Glu Ser Arg Asp Ala Leu Trp
1 5 10 15

Lys Gly Pro Gly
20

<210> 26
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 26
Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro Gln
1 5 10 15

Pro

<210> 27
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 27
Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro Gln
1 5 10 15

Pro

<210> 28
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 28
Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Ser Gln Pro Gln
1 5 10 15

Pro

<210> 29
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 29
Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Ser Gln Pro Gln
1 5 10 15

Pro

<210> 30
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 30
Gln Gln Thr Tyr Pro Gln Arg Pro Gln Gln Pro Phe Pro Gln Thr Gln
1 5 10 15

Gln Pro Gln Gln
20

<210> 31
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 31
 Pro Gln Gln Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln
 1 5 10 15

Pro Phe Pro Trp
 20

<210> 32
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 32
 Gln Gln Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Gln Leu Pro
 1 5 10 15

Phe Pro Gln Gln
 20

<210> 33
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 33
 Gln Ala Phe Pro Gln Pro Gln Gln Thr Phe Pro His Gln Pro Gln Gln
 1 5 10 15

Gln Phe Pro Gln
 20

<210> 34
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 34
 Thr Gln Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Pro Phe
 1 5 10 15

Pro Gln Thr Gln
 20

<210> 35
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 35
 Pro Ile Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Pro Gln
 1 5 10 15

 Gln Pro Phe Pro
 20

 <210> 36
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 36
 Pro Gln Gln Ser Phe Ser Tyr Gln Gln Gln Pro Phe Pro Gln Gln Pro
 1 5 10 15

 Tyr Pro Gln Gln
 20

 <210> 37
 <211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <220>
 <222> 2
 <223> Xaa is any amino acid

 <400> 37
 Gln Xaa Pro Phe
 1

 <210> 38
 <211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <220>
 <222> 2-3
 <223> Xaa is any amino acid

 <220>
 <222> 4
 <223> Xaa is Phe or Tyr

<400> 38
Gln Xaa Xaa Xaa
1

<210> 39
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 39
Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Phe Pro
1 5 10

<210> 40
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 40
Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Pro Phe Pro
1 5 10

<210> 41
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 41
Pro Ile Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro
1 5 10

<210> 42
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 42
Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln
1 5 10

<210> 43
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 43
 Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln
 1 5 10

<210> 44
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 44
 Gln Gln Tyr Pro Ser Gly Gln Gly Ser Phe Gln Pro Ser Gln Gln Asn
 1 5 10 15

Pro Gln

<210> 45
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<220>
 <222> 3
 <223> Xaa is Gln or Leu

<220>
 <222> 5
 <223> Xaa is Phe or Tyr

<400> 45
 Pro Gln Xaa Pro Xaa Pro
 1 5

<210> 46
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 46
 Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln
 1 5 10

<210> 47
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 47
 Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro Glu Leu Pro Tyr

1 5 10
 <210> 48
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 48
 Gln Gln Leu Pro Gln Pro Glu Gln Pro Gln Gln Ser Phe Pro Glu Gln
 1 5 10 15

 Glu Arg Pro Phe
 20

 <210> 49
 <211> 17
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 49
 Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro Gln
 1 5 10 15

 Leu

 <210> 50
 <211> 22
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 50
 Pro Gln Gln Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln
 1 5 10 15

 Pro Phe Pro Trp Gln Pro
 20

 <210> 51
 <211> 17
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 51
 Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro Gln
 1 5 10 15

 Leu

<210> 52
 <211> 15
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 52
 Gln Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Phe Pro Trp
 1 5 10 15

 <210> 53
 <211> 12
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 53
 Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr
 1 5 10

 <210> 54
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 54
 Pro Phe Pro Gln Pro Gln Leu Pro Tyr
 1 5

 <210> 55
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 55
 Pro Gln Pro Gln Leu Pro Tyr Pro Gln
 1 5

 <210> 56
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 56
 Pro Tyr Pro Gln Pro Gln Leu Pro Tyr
 1 5

```

<210> 57
<211> 11
<212> PRT
<213> Artificial Sequence
<220>
<223> peptide

<400> 57
Pro Gln Gln Pro Tyr Pro Gln Pro Gln Pro Gln
1 5 10

<210> 58
<211> 9
<212> PRT
<213> Artificial Sequence
<220>
<223> peptide

<400> 58
Pro Gln Gln Ser Phe Pro Gln Gln Gln
1 5

<210> 59
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> peptide

<400> 59
Ile Ile Pro Gln Gln Pro Ala Gln
1 5

<210> 60
<211> 13
<212> PRT
<213> Artificial Sequence
<220>
<223> peptide

<400> 60
Phe Pro Gln Gln Pro Gln Gln Pro Tyr Pro Gln Gln Pro
1 5 10

<210> 61
<211> 12
<212> PRT
<213> Artificial Sequence
<220>
<223> peptide

<400> 61
Phe Ser Gln Pro Gln Gln Gln Phe Pro Gln Pro Gln
1 5 10

<210> 62

```

<211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 62
 Leu Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Pro Tyr Pro
 1 5 10 15

 Gln Gln Pro Gln
 20

 <210> 63
 <211> 13
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 63
 Gln Ser Glu Gln Ser Gln Gln Pro Phe Pro Gln Gln Phe
 1 5 10

 <210> 64
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <220>
 <222> 2
 <223> Xaa is Ile or Leu

 <400> 64
 Gln Xaa Pro Gln Gln Pro Gln Gln Phe
 1 5

 <210> 65
 <211> 10
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 65
 Pro Phe Ser Gln Gln Gln Gln Ser Pro Phe
 1 5 10

 <210> 66
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

<400> 66
Pro Phe Ser Gln Gln Gln Gln Gln
1 5

<210> 67
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 67
Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Leu Gln Pro Gln
1 5 10 15

Pro

<210> 68
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 68
Gln Leu Gln Pro Phe Pro Arg Pro Gln Leu Pro Tyr Pro Gln Pro Gln
1 5 10 15

Pro

<210> 69
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 69
Gln Leu Gln Pro Phe Leu Gln Pro Gln Leu Pro Tyr Ser Gln Pro Gln
1 5 10 15

Pro

<210> 70
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 70
Gln Leu Gln Pro Phe Ser Gln Pro Gln Leu Pro Tyr Ser Gln Pro Gln
1 5 10 15

Pro

<210> 71
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 71
Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Ser Tyr Ser Gln Pro Gln
1 5 10 15

Pro

<210> 72
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 72
Pro Gln Leu Pro Tyr Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro Gln
1 5 10 15

Pro

<210> 73
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 73
Pro Gln Leu Pro Tyr Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro Gln
1 5 10 15

Leu

<210> 74
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 74
Pro Gln Pro Gln Pro Phe Leu Pro Gln Leu Pro Tyr Pro Gln Pro Gln
1 5 10 15

Ser

<210> 75
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 75
Pro Gln Pro Gln Pro Phe Pro Pro Gln Leu Pro Tyr Pro Gln Pro Gln
1 5 10 15

Ser

<210> 76
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 76
Pro Gln Pro Gln Pro Phe Pro Pro Gln Leu Pro Tyr Pro Gln Tyr Gln
1 5 10 15

Pro

<210> 77
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 77
Pro Gln Pro Gln Pro Phe Pro Pro Gln Leu Pro Tyr Pro Gln Pro Pro
1 5 10 15

Pro

<210> 78
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 78
Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln Glu
1 5 10 15

Gln Val

<210> 79
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 79
Val Pro Gln Leu Gln Pro Glu Asn Pro Ser Gln Gln Gln Pro Gln Glu
1 5 10 15

Gln Val

<210> 80
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 80
Val Pro Gln Leu Gln Pro Arg Asn Pro Ser Gln Gln Gln Pro Gln Glu
1 5 10 15

Gln Val

<210> 81
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 81
Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln Glu Gln Pro Gln Glu
1 5 10 15

Gln Val

<210> 82
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 82
Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln Arg Gln Pro Gln Glu
1 5 10 15

Gln Val

<210> 83
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 83
Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Glu Glu
1 5 10 15

Gln Val

<210> 84
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 84
Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Arg Glu
1 5 10 15

Gln Val

<210> 85
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 85
Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln Glu Gln Pro Glu Glu
1 5 10 15

Gln Val

<210> 86
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 86
Val Pro Gln Leu Gln Pro Glu Asn Pro Ser Gln Gln Gln Pro Glu Glu
1 5 10 15

Gln Val

<210> 87
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 87
Val Pro Gln Leu Gln Pro Glu Asn Pro Ser Gln Glu Gln Pro Gln Glu
1 5 10 15

Gln Val

<210> 88
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 88
Val Pro Gln Leu Gln Pro Glu Asn Pro Ser Gln Glu Gln Pro Glu Glu
1 5 10 15

Gln Val

<210> 89
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 89
Arg Trp Pro Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln Gln
1 5 10 15

<210> 90
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 90
Trp Pro Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln
1 5 10 15

<210> 91
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 91
 Pro Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro
 1 5 10 15

<210> 92
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 92
 Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln
 1 5 10 15

<210> 93
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 93
 Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln Glu
 1 5 10 15

<210> 94
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 94
 Gln Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln Glu Gln
 1 5 10 15

<210> 95
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 95
 Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln Glu Gln Val
 1 5 10 15

<210> 96
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 96
 Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln Glu Gln Val Pro
 1 5 10 15

<210> 97
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 97
 Pro Gln Pro Gln Pro Phe Pro Pro Gln Leu Pro Tyr Pro Gln Thr Gln
 1 5 10 15

Pro

<210> 98
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 98
 Leu Gly Gln Gln Gln Pro Phe Pro Pro Gln Gln Pro Tyr Pro Gln Pro
 1 5 10 15

Gln Pro Phe

<210> 99
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 99
 Gln Gln Tyr Pro Ser Gly Glu Gly Ser Phe Gln Pro Ser Gln Glu Asn
 1 5 10 15

Pro Gln

<210> 100
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 100
 Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln
 1 5 10 15

<210> 101
 <211> 17
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 101
 Pro Gln Leu Pro Tyr Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro Gln
 1 5 10 15

 Pro

<210> 102
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 102
 Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro Gln Leu Pro Tyr
 1 5 10

<210> 103
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 103
 Gln Gln Leu Pro Gln Pro Gln Gln Pro Gln Gln Ser Phe Pro Gln Gln
 1 5 10 15

Gln Arg Pro Phe
 20

<210> 104
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 104
 Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Leu Gln Pro Gln
 1 5 10 15

Ser

<210> 105
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide
 <400> 105
 Gln Pro Gln Pro Phe Pro Pro Pro Gln Leu Pro Tyr Pro Gln Thr Gln
 1 5 10 15

Pro

<210> 106
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide
 <400> 106
 Pro Gln Pro Gln Pro Phe Pro Pro Gln Leu Pro Tyr Pro Gln Thr Gln
 1 5 10 15

Ser

<210> 107
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide
 <400> 107
 Ala Val Arg Phe Pro Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln
 1 5 10 15

Gln Leu Pro Gln
 20

<210> 108
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide
 <400> 108
 Met Val Arg Val Pro Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln
 1 5 10 15

Gln Gln Pro Gln
 20

<210> 109
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

 <400> 109
 Met Val Arg Val Pro Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln
 1 5 10 15

 Gln His Pro Gln
 20

 <210> 110
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 110
 Met Val Arg Val Pro Met Pro Gln Leu Gln Pro Gln Asp Pro Ser Gln
 1 5 10 15

 Gln Gln Pro Gln
 20

 <210> 111
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 111
 Met Val Arg Val Thr Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln
 1 5 10 15

 Gln Gln Pro Gln
 20

 <210> 112
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 112
 Ala Val Arg Val Ser Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln
 1 5 10 15

 Gln Gln Pro Gln
 20

 <210> 113
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>

<223> peptide

<400> 113

Ala Val Arg Val Pro Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln
1 5 10 15

Gln Gln Pro Gln
20

<210> 114

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 114

Ala Val Arg Trp Pro Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln
1 5 10 15

Gln Gln Pro Gln
20

<210> 115

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 115

Ala Val Arg Val Pro Val Pro Gln Leu Gln Leu Gln Asn Pro Ser Gln
1 5 10 15

Gln Gln Pro Gln
20

<210> 116

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 116

Met Val Arg Val Pro Val Pro Gln Leu Gln Leu Gln Asn Pro Ser Gln
1 5 10 15

Gln Gln Pro Gln
20

<210> 117

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 117
 Ala Val Arg Val Pro Val Pro Gln Pro Gln Pro Gln Asn Pro Ser Gln
 1 5 10 15

Pro Gln Pro Gln
 20

<210> 118
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 118
 Ala Val Arg Val Pro Val Pro Gln Leu Gln Pro Lys Asn Pro Ser Gln
 1 5 10 15

Gln Gln Pro Gln
 20

<210> 119
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 119
 Leu Gln Pro Gln Asn Pro Ser Gln Gln Leu Pro Gln Glu Gln Val Pro
 1 5 10 15

Leu Val Gln Gln
 20

<210> 120
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 120
 Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln Glu Gln Val Pro
 1 5 10 15

Leu Val Gln Gln
 20

<210> 121
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 121
 Leu Gln Pro Gln Asn Pro Ser Gln Gln His Pro Gln Glu Gln Val Pro
 1 5 10 15

Leu Val Gln Gln
 20

<210> 122
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 122
 Leu Gln Pro Gln Asp Pro Ser Gln Gln Gln Pro Gln Glu Gln Val Pro
 1 5 10 15

Leu Val Gln Gln
 20

<210> 123
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 123
 Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln Lys Gln Val Pro
 1 5 10 15

Leu Val Gln Gln
 20

<210> 124
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 124
 Leu Gln Leu Gln Asn Pro Ser Gln Gln Gln Pro Gln Glu Gln Val Pro
 1 5 10 15

Leu Val Gln Glu
 20

<210> 125
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 125
 Leu Gln Leu Gln Asn Pro Ser Gln Gln Gln Pro Gln Glu Gln Val Pro
 1 5 10 15

Leu Val Gln Glu
 20

<210> 126
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 126
 Pro Gln Pro Gln Asn Pro Ser Gln Pro Gln Pro Gln Gly Gln Val Pro
 1 5 10 15

Leu Val Gln Gln
 20

<210> 127
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 127
 Pro Gln Pro Gln Asn Pro Ser Gln Pro Gln Pro Gln Arg Gln Val Pro
 1 5 10 15

Leu Val Gln Gln
 20

<210> 128
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 128
 Leu Gln Pro Lys Asn Pro Ser Gln Gln Gln Pro Gln Glu Gln Val Pro
 1 5 10 15

Leu Val Gln Gln
 20

<210> 129
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 129

Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln Glu Gln Val Pro
 1 5 10 15

Leu Met Gln Gln
 20

<210> 130
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 130
 Gln Leu Pro Gln Glu Gln Val Pro Leu Val Gln Gln Gln Gln Phe Leu
 1 5 10 15

Gly Gln Gln Gln
 20

<210> 131
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 131
 Gln His Pro Gln Glu Gln Val Pro Leu Val Gln Gln Gln Gln Phe Leu
 1 5 10 15

Gly Gln Gln Gln
 20

<210> 132
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 132
 Gln Gln Pro Gln Glu Gln Val Pro Leu Val Gln Gln Gln Gln Phe Leu
 1 5 10 15

Gly Gln Gln Gln
 20

<210> 133
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 133
 Gln Gln Pro Gln Glu Gln Val Pro Leu Val Gln Gln Gln Gln Phe Leu

1	5	10	15
---	---	----	----

Gly Gln Gln Gln
20

<210> 134
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 134
 Gln Gln Pro Gln Glu Gln Val Pro Leu Val Gln Gln Gln Gln Phe Pro
 1 5 10 15

Gly Gln Gln Gln
20

<210> 135
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 135
 Gln Gln Pro Gln Lys Gln Val Pro Leu Val Gln Gln Gln Gln Phe Pro
 1 5 10 15

Gly Gln Gln Gln
20

<210> 136
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 136
 Gln Gln Pro Gln Glu Gln Val Pro Leu Val Gln Glu Gln Gln Phe Gln
 1 5 10 15

Gly Gln Gln Gln
20

<210> 137
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 137
 Pro Gln Pro Gln Gly Gln Val Pro Leu Val Gln Gln Gln Gln Phe Pro
 1 5 10 15

Gly Gln Gln Gln
20

<210> 138
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 138
Pro Gln Pro Gln Arg Gln Val Pro Leu Val Gln Gln Gln Gln Phe Pro
1 5 10 15

Gly Gln Gln Gln
20

<210> 139
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 139
Gln Gln Pro Gln Glu Gln Val Pro Leu Met Gln Gln Gln Gln Gln Phe
1 5 10 15

Pro Gly Gln Gln
20

<210> 140
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 140
Leu Val Gln Gln Gln Gln Phe Leu Gly Gln Gln Gln Pro Phe Pro Pro
1 5 10 15

Gln Gln Pro Tyr
20

<210> 141
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 141
Leu Val Gln Gln Gln Gln Phe Leu Gly Gln Gln Gln Ser Phe Pro Pro
1 5 10 15

Gln Gln Pro Tyr
20

<210> 142
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 142
Leu Val Gln Gln Gln Gln Phe Leu Gly Gln Gln Gln Pro Phe Pro Pro
1 5 10 15

Gln Gln Pro Tyr
20

<210> 143
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 143
Leu Val Gln Gln Gln Gln Phe Pro Gly Gln Gln Gln Pro Phe Pro Pro
1 5 10 15

Gln Gln Pro Tyr
20

<210> 144
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 144
Leu Val Gln Glu Gln Gln Phe Gln Gly Gln Gln Gln Pro Phe Pro Pro
1 5 10 15

Gln Gln Pro Tyr
20

<210> 145
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 145
Leu Val Gln Gln Gln Gln Phe Pro Gly Gln Gln Gln Gln Phe Pro Pro
1 5 10 15

Gln Gln Pro Tyr

20

<210> 146
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 146
Leu Met Gln Gln Gln Gln Phe Pro Gly Gln Gln Glu Gln Phe Pro
1 5 10 15

Pro Gln Gln Pro
20

<210> 147
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 147
Leu Met Gln Gln Gln Gln Phe Pro Gly Gln Gln Glu Arg Phe Pro
1 5 10 15

Pro Gln Gln Pro
20

<210> 148
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 148
Gly Gln Gln Gln Pro Phe Pro Pro Gln Gln Pro Tyr Pro Gln Pro Gln
1 5 10 15

Pro Phe Pro Ser
20

<210> 149
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 149
Gly Gln Gln Gln Pro Phe Pro Pro Gln Gln Pro Tyr Pro Gln Pro Gln
1 5 10 15

Phe Pro Ser Gln
20

<210> 150
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 150
Gly Gln Gln Gln Ser Phe Pro Pro Gln Gln Pro Tyr Pro Gln Pro Gln
1 5 10 15

Pro Phe Pro Ser
20

<210> 151
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 151
Gly Gln Gln Gln Pro Phe Pro Pro Gln Gln Pro Tyr Pro Gln Gln Gln
1 5 10 15

Pro Phe Pro Ser
20

<210> 152
<211> 20

<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 152
Gly Gln Gln Gln Gln Phe Pro Pro Gln Gln Pro Tyr Pro Gln Pro Gln
1 5 10 15

Pro Phe Pro Ser
20

<210> 153
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 153
Gly Gln Gln Glu Gln Phe Pro Pro Gln Gln Pro Tyr Pro His Gln Gln
1 5 10 15

Pro Phe Pro Ser
20

<210> 154
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 154
 Gly Gln Gln Glu Arg Phe Pro Pro Gln Gln Pro Tyr Pro His Gln Gln
 1 5 10 15

Pro Phe Pro Ser
 20

<210> 155
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 155
 Gln Gln Pro Tyr Pro Gln Pro Gln Pro Phe Pro Ser Gln Leu Pro Tyr
 1 5 10 15

Leu Gln Leu Gln
 20

<210> 156
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 156
 Gln Gln Pro Tyr Pro Gln Pro Gln Phe Pro Ser Gln Leu Pro Tyr Leu
 1 5 10 15

Gln Leu Gln Pro
 20

<210> 157
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 157
 Gln Gln Pro Tyr Pro Gln Pro Gln Pro Phe Pro Ser Gln Gln Pro Tyr
 1 5 10 15

Leu Gln Leu Gln
 20

<210> 158
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 158
 Gln Gln Pro Tyr Pro Gln Gln Gln Pro Phe Pro Ser Gln Gln Pro Tyr
 1 5 10 15
 Met Gln Leu Gln
 20

 <210> 159
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 159
 Gln Gln Pro Tyr Pro His Gln Gln Pro Phe Pro Ser Gln Gln Pro Tyr
 1 5 10 15
 Pro Gln Pro Gln
 20

 <210> 160
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 160
 Pro Phe Pro Ser Gln Leu Pro Tyr Leu Gln Leu Gln Pro Phe Pro Gln
 1 5 10 15
 Pro Gln Leu Pro
 20

 <210> 161
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 161
 Pro Phe Pro Ser Gln Gln Pro Tyr Leu Gln Leu Gln Pro Phe Pro Gln
 1 5 10 15
 Pro Gln Leu Pro
 20

 <210> 162

<211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 162
 Pro Phe Pro Ser Gln Gln Pro Tyr Leu Gln Leu Gln Pro Phe Ser Gln
 1 5 10 15

 Pro Gln Leu Pro
 20

<210> 163
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 163
 Pro Phe Pro Ser Gln Gln Pro Tyr Leu Gln Leu Gln Pro Phe Leu Gln
 1 5 10 15

 Pro Gln Leu Pro
 20

<210> 164
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 164
 Pro Phe Pro Ser Gln Gln Pro Tyr Leu Gln Leu Gln Pro Phe Leu Gln
 1 5 10 15

 Pro Gln Pro Phe
 20

<210> 165
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 165
 Pro Phe Pro Ser Gln Gln Pro Tyr Leu Gln Leu Gln Pro Phe Pro Gln
 1 5 10 15

 Pro Gln Leu Pro
 20

<210> 166
 <211> 20

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 166
 Pro Phe Pro Ser Gln Gln Pro Tyr Met Gln Leu Gln Pro Phe Pro Gln
 1 5 10 15

 Pro Gln Leu Pro
 20

<210> 167
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

 <400> 167
 Pro Phe Pro Ser Gln Gln Pro Tyr Met Gln Leu Gln Pro Phe Pro Gln
 1 5 10 15

 Pro Gln Pro Phe
 20

<210> 168
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

 <400> 168
 Pro Phe Pro Ser Gln Gln Pro Tyr Leu Gln Leu Gln Pro Phe Pro Gln
 1 5 10 15

 Pro Gln Pro Phe
 20

<210> 169
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

 <400> 169
 Pro Phe Pro Ser Gln Gln Pro Tyr Leu Gln Leu Gln Pro Phe Pro Arg
 1 5 10 15

 Pro Gln Leu Pro
 20

<210> 170
 <211> 20
 <212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 170

Pro Phe Pro Ser Gln Gln Pro Tyr Pro Gln Pro Gln Pro Phe Pro Pro
1 5 10 15

Gln Leu Pro Tyr
20

<210> 171

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 171

Pro Phe Pro Ser Gln Gln Pro Tyr Pro Gln Pro Gln Pro Phe Pro Gln
1 5 10 15

Pro Gln Pro Phe
20

<210> 172

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 172

Leu Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Ser Gln Pro
1 5 10 15

Gln Pro Phe Arg
20

<210> 173

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 173

Leu Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Ser Gln Pro
1 5 10 15

Gln Gln Phe Arg
20

<210> 174

<211> 20

<212> PRT

<213> Artificial Sequence

<220>
 <223> peptide

 <400> 174
 Leu Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Leu Gln Pro
 1 5 10 15

 Gln Pro Phe Arg
 20

 <210> 175
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 175
 Leu Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Ser Tyr Ser Gln Pro
 1 5 10 15

 Gln Pro Phe Arg
 20

 <210> 176
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 176
 Leu Gln Leu Gln Pro Phe Ser Gln Pro Gln Leu Pro Tyr Ser Gln Pro
 1 5 10 15

 Gln Pro Phe Arg
 20

 <210> 177
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 177
 Leu Gln Leu Gln Pro Phe Leu Gln Pro Gln Leu Pro Tyr Ser Gln Pro
 1 5 10 15

 Gln Pro Phe Arg
 20

 <210> 178
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide
 <400> 178
 Leu Gln Leu Gln Pro Phe Leu Gln Pro Gln Pro Phe Pro Pro Gln Leu
 1 5 10 15
 Pro Tyr Ser Gln
 20

<210> 179
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide
 <400> 179
 Leu Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro
 1 5 10 15
 Gln Leu Pro Tyr
 20

<210> 180
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide
 <400> 180
 Met Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro
 1 5 10 15
 Gln Leu Pro Tyr
 20

<210> 181
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide
 <400> 181
 Met Gln Leu Gln Pro Phe Pro Gln Pro Gln Pro Phe Pro Pro Gln Leu
 1 5 10 15
 Pro Tyr Pro Gln
 20

<210> 182
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>

<223> peptide

<400> 182

Leu Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro
1 5 10 15

Gln Pro Phe Arg
20

<210> 183

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 183

Leu Gln Leu Gln Pro Phe Pro Gln Pro Gln Pro Phe Pro Pro Gln Leu
1 5 10 15

Pro Tyr Pro Gln
20

<210> 184

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 184

Leu Gln Leu Gln Pro Phe Pro Arg Pro Gln Leu Pro Tyr Pro Gln Pro
1 5 10 15

Gln Pro Phe Arg
20

<210> 185

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 185

Leu Gln Leu Gln Pro Phe Pro Gln Pro Gln Pro Phe Leu Pro Gln Leu
1 5 10 15

Pro Tyr Pro Gln
20

<210> 186

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 186

Leu Gln Leu Gln Pro Phe Pro Gln Pro Gln Pro Phe Pro Pro Gln Leu
1 5 10 15

Pro Tyr Pro Gln
20

<210> 187

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 187

Pro Gln Pro Gln Pro Phe Pro Pro Gln Leu Pro Tyr Pro Gln Thr Gln
1 5 10 15

Pro Phe Pro Pro
20

<210> 188

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 188

Pro Gln Pro Gln Pro Phe Pro Gln Pro Gln Pro Phe Pro Pro Gln Leu
1 5 10 15

Pro Tyr Pro Gln
20

<210> 189

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 189

Pro Gln Leu Pro Tyr Ser Gln Pro Gln Pro Phe Arg Pro Gln Gln Pro
1 5 10 15

Tyr Pro Gln Pro
20

<210> 190

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 190
 Pro Gln Leu Pro Tyr Ser Gln Pro Gln Gln Phe Arg Pro Gln Gln Pro
 1 5 10 15

Tyr Pro Gln Pro
 20

<210> 191
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 191
 Pro Gln Leu Pro Tyr Leu Gln Pro Gln Pro Phe Arg Pro Gln Gln Pro
 1 5 10 15

Tyr Pro Gln Pro
 20

<210> 192
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 192
 Pro Gln Leu Ser Tyr Ser Gln Pro Gln Pro Phe Arg Pro Gln Gln Pro
 1 5 10 15

Tyr Pro Gln Pro
 20

<210> 193
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 193
 Pro Gln Leu Ser Tyr Ser Gln Pro Gln Pro Phe Arg Pro Gln Gln Leu
 1 5 10 15

Tyr Pro Gln Pro
 20

<210> 194
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 194
 Pro Gln Pro Phe Pro Pro Gln Leu Pro Tyr Ser Gln Pro Gln Pro Phe
 1 5 10 15

Arg Pro Gln Gln
 20

<210> 195
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 195
 Pro Gln Leu Pro Tyr Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro Gln
 1 5 10 15

Leu Pro Tyr Pro
 20

<210> 196
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 196
 Pro Gln Leu Pro Tyr Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro Gln
 1 5 10 15

Pro Phe Arg Pro
 20

<210> 197
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 197
 Pro Gln Pro Phe Pro Pro Gln Leu Pro Tyr Pro Gln Pro Gln Leu Pro
 1 5 10 15

Tyr Pro Gln Pro
 20

<210> 198
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 198

Pro Gln Leu Pro Tyr Pro Gln Pro Gln Pro Phe Arg Pro Gln Gln Pro
 1 5 10 15

Tyr Pro Gln Pro
 20

<210> 199
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 199
 Pro Gln Pro Phe Pro Pro Gln Leu Pro Tyr Pro Gln Pro Gln Pro Phe
 1 5 10 15

Arg Pro Gln Gln
 20

<210> 200
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 200
 Pro Gln Pro Phe Pro Pro Gln Leu Pro Tyr Pro Gln Pro Pro Pro Phe
 1 5 10 15

Ser Pro Gln Gln
 20

<210> 201
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 201
 Pro Gln Pro Phe Leu Pro Gln Leu Pro Tyr Pro Gln Pro Gln Ser Phe
 1 5 10 15

Pro Pro Gln Gln
 20

<210> 202
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 202
 Pro Gln Pro Phe Pro Pro Gln Leu Pro Tyr Pro Gln Pro Gln Ser Phe

1 5 10 15

Pro Pro Gln Gln
20

<210> 203
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 203
Gln Leu Pro Tyr Pro Gln Thr Gln Pro Phe Pro Pro Gln Gln Pro Tyr
1 5 10 15

Pro Gln Pro Gln
20

<210> 204
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 204
Pro Gln Pro Phe Pro Pro Gln Leu Pro Tyr Pro Gln Thr Gln Pro Phe
1 5 10 15

Pro Pro Gln Gln
20

<210> 205
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 205
Leu Pro Tyr Pro Gln Pro Gln Pro Phe Arg Pro Gln Gln Pro Tyr Pro
1 5 10 15

Gln Ser Gln Pro
20

<210> 206
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 206
Leu Pro Tyr Pro Gln Pro Gln Pro Phe Arg Pro Gln Gln Ser Tyr Pro
1 5 10 15

Gln Pro Gln Pro
20

<210> 207
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 207
Leu Pro Tyr Pro Gln Pro Pro Pro Phe Ser Pro Gln Gln Pro Tyr Pro
1 5 10 15

Gln Pro Gln Pro
20

<210> 208
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 208
Leu Pro Gln Leu Pro Tyr Pro Gln Pro Gln Ser Phe Pro Pro Gln Gln
1 5 10 15

Pro Tyr Pro Gln
20

<210> 209
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 209
Pro Pro Gln Leu Pro Tyr Pro Gln Thr Gln Pro Phe Pro Pro Gln Gln
1 5 10 15

Pro Tyr Pro Gln
20

<210> 210
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 210
Gln Pro Phe Arg Pro Gln Gln Pro Tyr Pro Gln Pro Gln Pro Gln Tyr
1 5 10 15

Ser Gln Pro Gln
20

<210> 211
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 211
Gln Pro Phe Arg Pro Gln Gln Leu Tyr Pro Gln Pro Gln Pro Gln Tyr
1 5 10 15

Ser Gln Pro Gln
20

<210> 212
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 212
Gln Pro Phe Arg Pro Gln Gln Pro Tyr Pro Gln Ser Gln Pro Gln Tyr
1 5 10 15

Ser Gln Pro Gln
20

<210> 213
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 213
Gln Pro Phe Arg Pro Gln Gln Ser Tyr Pro Gln Pro Gln Pro Gln Tyr
1 5 10 15

Ser Gln Pro Gln
20

<210> 214
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 214
Pro Pro Phe Ser Pro Gln Gln Pro Tyr Pro Gln Pro Gln Pro Gln Tyr
1 5 10 15

Pro Gln Pro Gln

20

<210> 215
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 215
Gln Ser Phe Pro Pro Gln Gln Pro Tyr Pro Gln Gln Arg Pro Lys Tyr
1 5 10 15

Leu Gln Pro Gln
20

<210> 216
<211> 20

<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 216
Gln Ser Phe Pro Pro Gln Gln Pro Tyr Pro Gln Gln Arg Pro Met Tyr
1 5 10 15

Leu Gln Pro Gln
20

<210> 217
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 217
Gln Ser Phe Pro Pro Gln Gln Pro Tyr Pro Gln Gln Gln Pro Gln Tyr
1 5 10 15

Leu Gln Pro Gln
20

<210> 218
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 218
Gln Pro Phe Pro Pro Gln Gln Pro Tyr Pro Gln Pro Gln Pro Gln Tyr
1 5 10 15

Pro Gln Pro Gln

20

<210> 219
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 219
Tyr Pro Gln Pro Gln Pro Gln Tyr Ser Gln Pro Gln Gln Pro Ile Ser
1 5 10 15

Gln Gln Gln Gln
20

<210> 220
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 220
Tyr Pro Gln Pro Gln Pro Gln Tyr Ser Gln Pro Gln Glu Pro Ile Ser
1 5 10 15

Gln Gln Gln Gln
20

<210> 221
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 221
Tyr Pro Gln Ser Gln Pro Gln Tyr Ser Gln Pro Gln Gln Pro Ile Ser
1 5 10 15

Gln Gln Gln Gln
20

<210> 222
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 222
Tyr Pro Gln Pro Gln Pro Gln Tyr Pro Gln Pro Gln Gln Pro Ile Ser
1 5 10 15

Gln Gln Gln Ala
20

<210> 223
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 223
 Tyr Pro Gln Gln Arg Pro Lys Tyr Leu Gln Pro Gln Gln Pro Ile Ser
 1 5 10 15

Gln Gln Gln Ala
 20

<210> 224
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 224
 Tyr Pro Gln Gln Arg Pro Met Tyr Leu Gln Pro Gln Gln Pro Ile Ser
 1 5 10 15

Gln Gln Gln Ala
 20

<210> 225
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 225
 Tyr Pro Gln Gln Gln Pro Gln Tyr Leu Gln Pro Gln Gln Pro Ile Ser
 1 5 10 15

Gln Gln Gln Ala
 20

<210> 226
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 226
 Ser Gln Pro Gln Gln Pro Ile Ser Gln Gln Gln Gln Gln Gln Gln
 1 5 10 15

Gln Gln Gln Gln
 20

<210> 227
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 227
 Ser Gln Pro Gln Glu Pro Ile Ser Gln Gln Gln Gln Gln Gln Gln
 1 5 10 15

 Gln Gln Gln Ile
 20

 <210> 228
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 228
 Pro Gln Pro Gln Gln Pro Ile Ser Gln Gln Gln Ala Gln Gln Gln
 1 5 10 15

 Gln Gln Gln Gln
 20

 <210> 229
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 229
 Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
 1 5 10 15

 Ile Leu Gln Gln
 20

 <210> 230
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 230
 Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Glu Gln Gln
 1 5 10 15

 Ile Leu Gln Gln
 20

 <210> 231

<211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 231
 Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
 1 5 10 15

 Ile Ile Gln Gln
 20

 <210> 232
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 232
 Gln Gln Gln Gln Gln Gln Gln Gln Gln Lys Gln Gln Gln Gln Gln
 1 5 10 15

 Gln Gln Gln Ile
 20

 <210> 233
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 233
 Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
 1 5 10 15

 Thr Leu Gln Gln
 20

 <210> 234
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 234
 Gln Gln Gln Gln Gln Gln Gln Ile Leu Gln Gln Ile Leu Gln Gln
 1 5 10 15

 Gln Leu Ile Pro
 20

 <210> 235
 <211> 20

<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 235
Gln Gln Gln Gln Gln Glu Gln Gln Ile Leu Gln Gln Ile Leu Gln Gln
1 5 10 15

Gln Leu Ile Pro
20

<210> 236
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 236
Gln Gln Gln Gln Gln Glu Gln Gln Ile Leu Gln Gln Met Leu Gln Gln
1 5 10 15

Gln Leu Ile Pro
20

<210> 237
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 237
Gln Gln Gln Gln Gln Glu Gln Gln Ile Leu Gln Gln Ile Leu Gln Gln
1 5 10 15

Gln Leu Thr Pro
20

<210> 238
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 238
Gln Gln Gln Gln Gln Gln Gln Gln Ile Ile Gln Gln Ile Leu Gln Gln
1 5 10 15

Gln Leu Ile Pro
20

<210> 239
<211> 20
<212> PRT

<213> Artificial Sequence
 <220>
 <223> peptide
 <400> 239
 Gln Gln Lys Gln Gln Gln Gln Gln Gln Gln Ile Leu Gln Gln Ile
 1 5 10 15
 Leu Gln Gln Gln
 20
 <210> 240
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 240
 Gln Gln Gln Gln Gln Gln Gln Gln Ile Leu Pro Gln Ile Leu Gln Gln
 1 5 10 15
 Gln Leu Ile Pro
 20
 <210> 241
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 241
 Gln Gln Gln Gln Gln Gln Gln Gln Thr Leu Gln Gln Ile Leu Gln Gln
 1 5 10 15
 Gln Leu Ile Pro
 20
 <210> 242
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 242
 Ile Leu Gln Gln Ile Leu Gln Gln Gln Leu Ile Pro Cys Met Asp Val
 1 5 10 15
 Val Leu Gln Gln
 20
 <210> 243
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

 <400> 243
 Ile Leu Gln Gln Met Leu Gln Gln Gln Leu Ile Pro Cys Met Asp Val
 1 5 10 15

 Val Leu Gln Gln
 20

 <210> 244
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 244
 Ile Leu Gln Gln Ile Leu Gln Gln Gln Leu Thr Pro Cys Met Asp Val
 1 5 10 15

 Val Leu Gln Gln
 20

 <210> 245
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 245
 Ile Leu Gln Gln Ile Leu Gln Gln Gln Leu Ile Pro Cys Arg Asp Val
 1 5 10 15

 Val Leu Gln Gln
 20

 <210> 246
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 246
 Ile Leu Pro Gln Ile Leu Gln Gln Gln Leu Ile Pro Cys Arg Asp Val
 1 5 10 15

 Val Leu Gln Gln
 20

 <210> 247
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

 <400> 247
 Thr Leu Gln Gln Ile Leu Gln Gln Gln Leu Ile Pro Cys Arg Asp Val
 1 5 10 15

 Val Leu Gln Gln
 20

 <210> 248
 <211> 20

 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 248
 Gln Leu Ile Pro Cys Met Asp Val Val Leu Gln Gln His Asn Ile Ala
 1 5 10 15

 His Gly Arg Ser
 20

 <210> 249
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 249
 Gln Leu Ile Pro Cys Met Asp Val Val Leu Gln Gln His Asn Lys Ala
 1 5 10 15

 His Gly Arg Ser
 20

 <210> 250
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 250
 Gln Leu Ile Pro Cys Met Asp Val Val Leu Gln Gln His Asn Leu Ala
 1 5 10 15

 His Gly Arg Ser
 20

 <210> 251
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

 <400> 251
 Gln Leu Ile Pro Cys Met Asp Val Val Leu Gln Gln His Asn Ile Val
 1 5 10 15

 His Gly Arg Ser
 20

 <210> 252
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 252
 Gln Leu Thr Pro Cys Met Asp Val Val Leu Gln Gln His Asn Ile Ala
 1 5 10 15

 Arg Gly Arg Ser
 20

 <210> 253
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 253
 Gln Leu Ile Pro Cys Met Asp Val Val Leu Gln Gln His Asn Ile Val
 1 5 10 15

 His Gly Lys Ser
 20

 <210> 254
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 254
 Gln Leu Ile Pro Cys Arg Asp Val Val Leu Gln Gln His Ser Ile Ala
 1 5 10 15

 Tyr Gly Ser Ser
 20

 <210> 255
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>

<223> peptide

<400> 255

Gln Leu Ile Pro Cys Arg Asp Val Val Leu Gln Gln His Ser Ile Ala
1 5 10 15

His Gly Ser Ser
20

<210> 256

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 256

Gln Leu Ile Pro Cys Arg Asp Val Val Leu Gln Gln His Asn Ile Ala
1 5 10 15

His Gly Ser Ser
20

<210> 257

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 257

Gln Leu Ile Pro Cys Arg Asp Val Val Leu Gln Gln His Asn Ile Ala
1 5 10 15

His Ala Arg Ser
20

<210> 258

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 258

Gln Leu Ile Pro Cys Arg Asp Val Val Leu Gln Gln His Asn Ile Ala
1 5 10 15

His Ala Ser Ser
20

<210> 259

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 259
 Val Leu Gln Gln His Asn Ile Ala His Gly Arg Ser Gln Val Leu Gln
 1 5 10 15

Gln Ser Thr Tyr
 20

<210> 260
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 260
 Val Leu Gln Gln His Asn Lys Ala His Gly Arg Ser Gln Val Leu Gln
 1 5 10 15

Gln Ser Thr Tyr
 20

<210> 261
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 261
 Val Leu Gln Gln His Asn Leu Ala His Gly Arg Ser Gln Val Leu Gln
 1 5 10 15

Gln Ser Thr Tyr
 20

<210> 262
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 262
 Val Leu Gln Gln His Asn Ile Val His Gly Arg Ser Gln Val Leu Gln
 1 5 10 15

Gln Ser Thr Tyr
 20

<210> 263
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 263
 Val Leu Gln Gln His Asn Ile Ala Arg Gly Arg Ser Gln Val Leu Gln
 1 5 10 15

Gln Ser Thr Tyr
 20

<210> 264
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 264
 Val Leu Gln Gln His Asn Ile Val His Gly Lys Ser Gln Val Leu Gln
 1 5 10 15

Gln Ser Thr Tyr
 20

<210> 265
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 265
 Val Leu Gln Gln His Ser Ile Ala Tyr Gly Ser Ser Gln Val Leu Gln
 1 5 10 15

Gln Ser Thr Tyr
 20

<210> 266
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 266
 Val Leu Gln Gln His Ser Ile Ala His Gly Ser Ser Gln Val Leu Gln
 1 5 10 15

Gln Ser Thr Tyr
 20

<210> 267
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 267

Val Leu Gln Gln His Asn Ile Ala His Gly Ser Ser Gln Val Leu Gln
 1 5 10 15

Glu Ser Thr Tyr
 20

<210> 268
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 268
 Val Leu Gln Gln His Asn Ile Ala His Ala Arg Ser Gln Val Leu Gln
 1 5 10 15

Gln Ser Thr Tyr
 20

<210> 269
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 269
 Val Leu Gln Gln His Asn Ile Ala His Ala Ser Ser Gln Val Leu Gln
 1 5 10 15

Gln Ser Thr Tyr
 20

<210> 270
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 270
 Val Leu Gln Gln His Asn Ile Ala His Ala Ser Ser Gln Val Leu Gln
 1 5 10 15

Gln Ser Ser Tyr
 20

<210> 271
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 271
 His Gly Arg Ser Gln Val Leu Gln Gln Ser Thr Tyr Gln Leu Leu Gln

1	5	10	15
---	---	----	----

Glu Leu Cys Cys
20

<210> 272
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 272
 His Gly Arg Ser Gln Val Leu Gln Gln Ser Thr Tyr Gln Leu Leu Arg
 1 5 10 15

Glu Leu Cys Cys
20

<210> 273
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 273
 His Gly Arg Ser Gln Val Leu Gln Gln Ser Thr Tyr Gln Leu Leu Arg
 1 5 10 15

Glu Leu Cys Cys
20

<210> 274
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 274
 His Gly Lys Ser Gln Val Leu Gln Gln Ser Thr Tyr Gln Leu Leu Gln
 1 5 10 15

Glu Leu Cys Cys
20

<210> 275
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 275
 Tyr Gly Ser Ser Gln Val Leu Gln Gln Ser Thr Tyr Gln Leu Val Gln
 1 5 10 15

Gln Leu Cys Cys
20

<210> 276
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 276
His Gly Ser Ser Gln Val Leu Gln Gln Ser Thr Tyr Gln Leu Val Gln
1 5 10 15

Gln Phe Cys Cys
20

<210> 277
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 277
His Gly Ser Ser Gln Val Leu Gln Glu Ser Thr Tyr Gln Leu Val Gln
1 5 10 15

Gln Leu Cys Cys
20

<210> 278
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 278
His Ala Arg Ser Gln Val Leu Gln Gln Ser Thr Tyr Gln Pro Leu Gln
1 5 10 15

Gln Leu Cys Cys
20

<210> 279
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 279
His Ala Ser Ser Gln Val Leu Gln Gln Ser Thr Tyr Gln Leu Leu Gln
1 5 10 15

Gln Leu Cys Cys
20

<210> 280

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 280

His Ala Ser Ser Gln Val Leu Gln Gln Ser Ser Tyr Gln Gln Leu Gln
1 5 10 15

Gln Leu Cys Cys
20

<210> 281

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 281

Gln Ser Thr Tyr Gln Leu Leu Gln Glu Leu Cys Cys Gln His Leu Trp
1 5 10 15

Gln Ile Pro Glu
20

<210> 282

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 282

Gln Ser Thr Tyr Gln Leu Leu Arg Glu Leu Cys Cys Gln His Leu Trp
1 5 10 15

Gln Ile Pro Glu
20

<210> 283

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 283

Gln Ser Thr Tyr Gln Leu Leu Arg Glu Leu Cys Cys Gln His Leu Trp
1 5 10 15

Gln Ile Pro Glu
20

<210> 284
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 284
Gln Ser Thr Tyr Gln Leu Val Gln Gln Leu Cys Cys Gln Gln Leu Trp
1 5 10 15

Gln Ile Pro Glu
20

<210> 285
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 285
Gln Ser Thr Tyr Gln Leu Val Gln Gln Phe Cys Cys Gln Gln Leu Trp
1 5 10 15

Gln Ile Pro Glu
20

<210> 286
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 286
Gln Ser Thr Tyr Gln Pro Leu Gln Gln Leu Cys Cys Gln Gln Leu Trp
1 5 10 15

Gln Ile Pro Glu
20

<210> 287
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 287
Gln Ser Thr Tyr Gln Leu Leu Gln Gln Leu Cys Cys Gln Gln Leu Leu
1 5 10 15

Gln Ile Pro Glu

20

<210> 288
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 288
Gln Ser Ser Tyr Gln Gln Leu Gln Gln Leu Cys Cys Gln Gln Leu Phe
1 5 10 15

Gln Ile Pro Glu
20

<210> 289
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 289
Glu Leu Cys Cys Gln His Leu Trp Gln Ile Pro Glu Gln Ser Gln Cys
1 5 10 15

Gln Ala Ile His
20

<210> 290
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 290
Glu Leu Cys Cys Gln His Leu Trp Gln Ile Leu Glu Gln Ser Gln Cys
1 5 10 15

Gln Ala Ile His
20

<210> 291
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 291
Glu Leu Cys Cys Gln His Leu Trp Gln Ile Pro Glu Lys Leu Gln Cys
1 5 10 15

Gln Ala Ile His
20

<210> 292
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 292
 Gln Leu Cys Cys Gln Gln Leu Trp Gln Ile Pro Glu Gln Ser Arg Cys
 1 5 10 15

 Gln Ala Ile His
 20

 <210> 293
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 293
 Gln Phe Cys Cys Gln Gln Leu Trp Gln Ile Pro Glu Gln Ser Arg Cys
 1 5 10 15

 Gln Ala Ile His
 20

 <210> 294
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 294
 Gln Leu Cys Cys Gln Gln Leu Leu Gln Ile Pro Glu Gln Ser Arg Cys
 1 5 10 15

 Gln Ala Ile His
 20

 <210> 295
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 295
 Gly Leu Cys Cys Gln Gln Leu Leu Gln Ile Pro Glu Gln Ser Gln Cys
 1 5 10 15

 Gln Ala Ile His
 20

<210> 296
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 296
 Gln Leu Cys Cys Gln Gln Leu Phe Gln Ile Pro Glu Gln Ser Arg Cys
 1 5 10 15

Gln Ala Ile His
 20

<210> 297
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 297
 Gln Ile Pro Glu Gln Ser Gln Cys Gln Ala Ile His Asn Val Val His
 1 5 10 15

Ala Ile Ile Leu
 20

<210> 298
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 298
 Gln Ile Pro Glu Gln Ser Gln Cys Gln Ala Ile Gln Asn Val Val His
 1 5 10 15

Ala Ile Ile Leu
 20

<210> 299
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 299
 Gln Ile Leu Glu Gln Ser Gln Cys Gln Ala Ile His Asn Val Val His
 1 5 10 15

Ala Ile Ile Leu
 20

<210> 300

<211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 300
 Gln Ile Pro Glu Gln Ser Gln Cys Gln Ala Ile His Lys Val Val His
 1 5 10 15

 Ala Ile Ile Leu
 20

<210> 301
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 301
 Gln Ile Pro Glu Lys Leu Gln Cys Gln Ala Ile His Asn Val Val His
 1 5 10 15

 Ala Ile Ile Leu
 20

<210> 302
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 302
 Gln Ile Pro Glu Gln Ser Arg Cys Gln Ala Ile His Asn Val Val His
 1 5 10 15

 Ala Ile Ile Leu
 20

<210> 303
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 303
 Gln Ile Pro Glu Gln Ser Gln Cys Gln Ala Ile His Asn Val Ala His
 1 5 10 15

 Ala Ile Ile Met
 20

<210> 304
 <211> 20

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 304
 Gln Ile Pro Glu Gln Ser Arg Cys Gln Ala Ile His Asn Val Val His
 1 5 10 15

 Ala Ile Ile Leu
 20

 <210> 305
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 305
 Gln Ala Ile His Asn Val Val His Ala Ile Ile Leu His Gln Gln Gln
 1 5 10 15

 Lys Gln Gln Gln
 20

 <210> 306
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 306
 Gln Ala Ile His Asn Val Val His Ala Ile Ile Leu His Gln Gln Gln
 1 5 10 15

 Gln Lys Gln Gln
 20

 <210> 307
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220> \
 <223> peptide

 <400> 307
 Gln Ala Ile Gln Asn Val Val His Ala Ile Ile Leu His Gln Gln Gln
 1 5 10 15

 Lys Gln Gln Gln
 20

 <210> 308
 <211> 20
 <212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 308

Gln Ala Ile His Lys Val Val His Ala Ile Ile Leu His Gln Gln Gln
1 5 10 15

Lys Gln Gln Gln
20

<210> 309

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 309

Gln Ala Ile His Asn Val Val His Ala Ile Ile Leu His Gln Gln Gln
1 5 10 15

Gln Gln Gln Gln
20

<210> 310

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 310

Gln Ala Ile His Asn Val Val His Ala Ile Ile Leu His Gln Gln His
1 5 10 15

His His His Gln
20

<210> 311

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 311

Gln Ala Ile His Asn Val Val His Ala Ile Ile Leu His Gln Gln Gln
1 5 10 15

Arg Gln Gln Gln
20

<210> 312

<211> 20

<212> PRT

<213> Artificial Sequence
 <220>
 <223> peptide
 <400> 312
 Gln Ala Ile His Asn Val Val His Ala Ile Ile Met His Gln Gln Glu
 1 5 10 15
 Gln Gln Gln Gln
 20
 <210> 313
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 313
 Gln Ala Ile His Asn Val Ala His Ala Ile Ile Met His Gln Gln Gln
 1 5 10 15
 Gln Gln Gln Gln
 20
 <210> 314
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 314
 Gln Ala Ile His Asn Val Val His Ala Ile Ile Leu His His His Gln
 1 5 10 15
 Gln Gln Gln Gln
 20
 <210> 315
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 315
 Ala Ile Ile Leu His Gln Gln Gln Lys Gln Gln Gln Gln Pro Ser Ser
 1 5 10 15
 Gln Val Ser Phe
 20
 <210> 316
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

 <400> 316
 Ala Ile Ile Leu His Gln Gln Gln Gln Lys Gln Gln Gln Gln Pro Ser
 1 5 10 15

 Ser Gln Phe Ser
 20

 <210> 317
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 317
 Ala Ile Ile Leu His Gln Gln Gln Lys Gln Gln Gln Gln Leu Ser Ser
 1 5 10 15

 Gln Val Ser Phe
 20

 <210> 318
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 318
 Ala Ile Ile Leu His Gln Gln Gln Lys Gln Gln Gln Pro Ser Ser Gln
 1 5 10 15

 Val Ser Phe Gln
 20

 <210> 319
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 319
 Ala Ile Ile Leu His Gln Gln Gln Gln Gln Gln Gln Glu Gln Lys Gln
 1 5 10 15

 Gln Leu Gln Gln
 20

 <210> 320
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

 <400> 320
 Ala Ile Ile Leu His Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
 1 5 10 15

 Gln Pro Leu Ser
 20

 <210> 321
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 321
 Ala Ile Ile Leu His Gln Gln His His His His Gln Gln Gln Gln Gln
 1 5 10 15

 Gln Gln Gln Gln
 20

 <210> 322
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 322
 Ala Ile Ile Leu His Gln Gln His His His His Gln Glu Gln Lys Gln
 1 5 10 15

 Gln Leu Gln Gln
 20

 <210> 323
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 323
 Ala Ile Ile Leu His Gln Gln Gln Arg Gln Gln Gln Pro Ser Ser Gln
 1 5 10 15

 Val Ser Leu Gln
 20

 <210> 324
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>

<223> peptide
 <400> 324
 Ala Ile Ile Met His Gln Gln Glu Gln Gln Gln Gln Leu Gln Gln Gln
 1 5 10 15
 Gln Gln Gln Gln
 20
 <210> 325
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 325
 Ala Ile Ile Met His Gln Gln Gln Gln Gln Gln Gln Glu Gln Lys Gln
 1 5 10 15
 Gln Leu Gln Gln
 20
 <210> 326
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 326
 Ala Ile Ile Leu His His His Gln Gln Gln Gln Gln Gln Pro Ser Ser
 1 5 10 15
 Gln Val Ser Tyr
 20
 <210> 327
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 327
 Lys Gln Gln Gln Gln Pro Ser Ser Gln Val Ser Phe Gln Gln Pro Leu
 1 5 10 15
 Gln Gln Tyr Pro
 20
 <210> 328
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide

<400> 328
 Lys Gln Gln Gln Gln Pro Ser Ser Gln Phe Ser Phe Gln Gln Pro Leu
 1 5 10 15

Gln Gln Tyr Pro
 20

<210> 329
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 329
 Lys Gln Gln Gln Gln Leu Ser Ser Gln Val Ser Phe Gln Gln Pro Gln
 1 5 10 15

Gln Gln Tyr Pro
 20

<210> 330
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 330
 Lys Gln Gln Gln Pro Ser Ser Gln Val Ser Phe Gln Gln Pro Gln Gln
 1 5 10 15

Gln Tyr Pro Leu
 20

<210> 331
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 331
 Gln Gln Gln Gln Glu Gln Lys Gln Gln Leu Gln Gln Gln Gln Gln Gln
 1 5 10 15

Gln Gln Gln Leu
 20

<210> 332
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 332
 His His His Gln Glu Gln Lys Gln Gln Leu Gln Gln Gln Gln Gln Gln
 1 5 10 15

Gln Gln Gln Leu
 20

<210> 333
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 333
 Arg Gln Gln Gln Pro Ser Ser Gln Val Ser Leu Gln Gln Pro Gln Gln
 1 5 10 15

Gln Tyr Pro Ser
 20

<210> 334
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 334
 Gln Gln Gln Gln Leu Gln Gln Gln Gln Gln Gln Gln Leu Gln Gln Gln
 1 5 10 15

Gln Gln Gln Gln
 20

<210> 335
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 335
 Gln Gln Gln Gln Gln Pro Ser Ser Gln Val Ser Tyr Gln Gln Pro Gln
 1 5 10 15

Glu Gln Tyr Pro
 20

<210> 336
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 336

Gln Leu Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Leu Gln Gln Gln Gln
 1 5 10 15

Gln Lys Gln Gln
 20

<210> 337
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 337
 Gln Gln Gln Leu Gln Gln Gln Gln Gln Gln Lys Gln Gln Gln Gln Pro Ser
 1 5 10 15

Ser Gln Val Ser
 20

<210> 338
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 338
 Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Pro Leu Ser Gln Val Ser Phe
 1 5 10 15

Gln Gln Pro Gln
 20

<210> 339
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 339
 Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Pro Leu Ser Gln Val Cys Phe
 1 5 10 15

Gln Gln Ser Gln
 20

<210> 340
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 340
 His His His Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Pro Leu Ser

1	5	10	15
---	---	----	----

Gln Val Ser Phe
20

<210> 341
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 341
 Gln Gln Gln Gln Gln Gln Gln Gln Gln Pro Ser Ser Gln Val Ser Phe
 1 5 10 15

Gln Gln Pro Gln
20

<210> 342
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 342
 Gln Pro Leu Ser Gln Val Ser Phe Gln Gln Pro Gln Gln Gln Tyr Pro
 1 5 10 15

Ser Gly Gln Gly
20

<210> 343
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 343
 Gln Pro Leu Ser Gln Val Cys Phe Gln Gln Ser Gln Gln Gln Tyr Pro
 1 5 10 15

Ser Gly Gln Gly
20

<210> 344
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 344
 Gln Pro Ser Ser Gln Val Ser Phe Gln Gln Pro Gln Gln Gln Tyr Pro

1	5	10	15
---	---	----	----

Ser Ser Gln Val
20

<210> 345
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 345
 Gln Val Ser Phe Gln Gln Pro Leu Gln Gln Tyr Pro Leu Gly Gln Gly
 1 5 10 15

Ser Phe Arg Pro
20

<210> 346
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 346
 Gln Phe Ser Phe Gln Gln Pro Leu Gln Gln Tyr Pro Leu Gly Gln Gly
 1 5 10 15

Ser Phe Arg Pro
20

<210> 347
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 347
 Gln Val Ser Phe Gln Gln Pro Gln Gln Gln Tyr Pro Leu Gly Gln Gly
 1 5 10 15

Ser Phe Arg Pro
20

<210> 348
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 348
 Gln Val Ser Phe Gln Gln Pro Gln Gln Gln Tyr Pro Ser Gly Gln Gly
 1 5 10 15

Ser Phe Gln Pro
20

<210> 349
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 349
Gln Val Cys Phe Gln Gln Ser Gln Gln Gln Tyr Pro Ser Gly Gln Gly
1 5 10 15

Ser Phe Gln Pro
20

<210> 350
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 350
Gln Val Ser Phe Gln Gln Pro Gln Gln Gln Tyr Pro Ser Gly Gln Gly
1 5 10 15

Phe Phe Gln Pro
20

<210> 351
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 351
Gln Val Ser Phe Gln Gln Pro Gln Gln Gln Tyr Pro Ser Gly Gln Gly
1 5 10 15

Phe Phe Gln Pro
20

<210> 352
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 352
Gln Val Ser Leu Gln Gln Pro Gln Gln Gln Tyr Pro Ser Gly Gln Gly
1 5 10 15

Phe Phe Gln Pro
20

<210> 353
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 353
Gln Val Ser Phe Gln Gln Pro Gln Gln Gln Tyr Pro Ser Ser Gln Val
1 5 10 15

Ser Phe Gln Pro
20

<210> 354
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 354
Gln Val Ser Phe Gln Gln Pro Gln Gln Gln Tyr Pro Ser Ser Gln Gly
1 5 10 15

Ser Phe Gln Pro
20

<210> 355
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 355
Gln Val Ser Tyr Gln Gln Pro Gln Glu Gln Tyr Pro Ser Gly Gln Val
1 5 10 15

Ser Phe Gln Ser
20

<210> 356
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 356
Gln Gln Tyr Pro Leu Gly Gln Gly Ser Phe Arg Pro Ser Gln Gln Asn
1 5 10 15

Pro Gln Ala Gln

20

<210> 357
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 357
Gln Gln Tyr Pro Leu Gly Gln Gly Ser Phe Arg Pro Ser Gln Gln Asn
1 5 10 15

Ser Gln Ala Gln
20

<210> 358
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 358
Gln Gln Tyr Pro Ser Gly Gln Gly Ser Phe Gln Pro Ser Gln Gln Asn
1 5 10 15

Pro Gln Ala Gln
20

<210> 359
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 359
Gln Gln Tyr Pro Ser Gly Gln Gly Phe Phe Gln Pro Ser Gln Gln Asn
1 5 10 15

Pro Gln Ala Gln
20

<210> 360
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 360
Gln Gln Tyr Pro Ser Gly Gln Gly Phe Phe Gln Pro Phe Gln Gln Asn
1 5 10 15

Pro Gln Ala Gln
20

<210> 361
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 361
 Gln Gln Tyr Pro Ser Gly Gln Gly Phe Phe Gln Pro Ser Gln Gln Asn
 1 5 10 15

 Pro Gln Ala Gln
 20

 <210> 362
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 362
 Gln Gln Tyr Pro Ser Ser Gln Val Ser Phe Gln Pro Ser Gln Leu Asn
 1 5 10 15

 Pro Gln Ala Gln
 20

 <210> 363
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 363
 Gln Gln Tyr Pro Ser Ser Gln Gly Ser Phe Gln Pro Ser Gln Gln Asn
 1 5 10 15

 Pro Gln Ala Gln
 20

 <210> 364
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 364
 Glu Gln Tyr Pro Ser Gly Gln Val Ser Phe Gln Ser Ser Gln Gln Asn
 1 5 10 15

 Pro Gln Ala Gln
 20

<210> 365
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 365
 Ser Phe Arg Pro Ser Gln Gln Asn Pro Leu Ala Gln Gly Ser Val Gln
 1 5 10 15

 Pro Gln Gln Leu
 20

<210> 366
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 366
 Ser Phe Arg Pro Ser Gln Gln Asn Pro Gln Ala Gln Gly Ser Val Gln
 1 5 10 15

 Pro Gln Gln Leu
 20

<210> 367
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 367
 Ser Phe Arg Pro Ser Gln Gln Asn Pro Gln Thr Gln Gly Ser Val Gln
 1 5 10 15

 Pro Gln Gln Leu
 20

<210> 368
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 368
 Ser Phe Arg Pro Ser Gln Gln Asn Ser Gln Ala Gln Gly Ser Val Gln
 1 5 10 15

 Pro Gln Gln Leu
 20

<210> 369

<211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 369
 Ser Phe Arg Pro Ser Gln Gln Asn Pro Gln Asp Gln Gly Ser Val Gln
 1 5 10 15

 Pro Gln Gln Leu
 20

 <210> 370
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 370
 Ser Phe Arg Pro Ser Gln Gln Asn Pro Arg Ala Gln Gly Ser Val Gln
 1 5 10 15

 Pro Gln Gln Leu
 20

 <210> 371
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 371
 Ser Phe Gln Pro Ser Gln Gln Asn Pro Gln Ala Gln Gly Ser Val Gln
 1 5 10 15

 Pro Gln Gln Leu
 20

 <210> 372
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 372
 Phe Phe Gln Pro Ser Gln Gln Asn Pro Gln Ala Gln Gly Ser Phe Gln
 1 5 10 15

 Pro Gln Gln Leu
 20

 <210> 373
 <211> 20

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 373
 Phe Phe Gln Pro Phe Gln Gln Asn Pro Gln Ala Gln Gly Ser Phe Gln
 1 5 10 15

 Pro Gln Gln Leu
 20

 <210> 374
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 374
 Phe Phe Gln Pro Ser Gln Gln Asn Pro Gln Ala Gln Gly Ser Val Gln
 1 5 10 15

 Pro Gln Gln Leu
 20

 <210> 375
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 375
 Ser Phe Gln Pro Ser Gln Leu Asn Pro Gln Ala Gln Gly Ser Val Gln
 1 5 10 15

 Pro Gln Gln Leu
 20

 <210> 376
 <211> 20

 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 376
 Ser Phe Gln Pro Ser Gln Leu Asn Pro Gln Ala Gln Gly Ser Val Gln
 1 5 10 15

 Pro Gln Gln Leu
 20

 <210> 377
 <211> 20

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 377
 Ser Phe Gln Pro Ser Gln Gln Asn Pro Gln Ala Gln Gly Ser Val Gln
 1 5 10 15

 Pro Gln Gln Leu
 20

 <210> 378
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 378
 Ser Phe Gln Ser Ser Gln Gln Asn Pro Gln Ala Gln Gly Ser Val Gln
 1 5 10 15

 Pro Gln Gln Leu
 20

 <210> 379
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 379
 Pro Gln Ala Gln Gly Ser Val Gln Pro Gln Gln Leu Pro Gln Phe Glu
 1 5 10 15

 Glu Ile Arg Asn
 20

 <210> 380
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 380
 Pro Gln Thr Gln Gly Ser Val Gln Pro Gln Gln Leu Pro Gln Phe Glu
 1 5 10 15

 Glu Ile Arg Asn
 20

 <210> 381
 <211> 20
 <212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 381

Pro Gln Ala Gln Gly Ser Val Gln Pro Gln Gln Leu Pro Gln Phe Glu
1 5 10 15

Ile Arg Asn Leu
20

<210> 382

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 382

Pro Leu Ala Gln Gly Ser Val Gln Pro Gln Gln Leu Pro Gln Phe Glu
1 5 10 15

Glu Ile Arg Asn
20

<210> 383

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 383

Pro Gln Asp Gln Gly Ser Val Gln Pro Gln Gln Leu Pro Gln Phe Glu
1 5 10 15

Glu Ile Arg Asn
20

<210> 384

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 384

Pro Arg Ala Gln Gly Ser Val Gln Pro Gln Gln Leu Pro Gln Phe Glu
1 5 10 15

Glu Ile Arg Asn
20

<210> 385

<211> 20

<212> PRT

<213> Artificial Sequence

<220>
 <223> peptide

 <400> 385
 Pro Gln Ala Gln Gly Ser Phe Gln Pro Gln Gln Leu Pro Gln Phe Glu
 1 5 10 15

 Glu Ile Arg Asn
 20

 <210> 386
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 386
 Pro Gln Ala Gln Gly Ser Phe Gln Pro Gln Gln Leu Pro Gln Phe Glu
 1 5 10 15

 Ala Ile Arg Asn
 20

 <210> 387
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 387
 Pro Gln Ala Gln Gly Ser Val Gln Pro Gln Gln Leu Pro Gln Phe Ala
 1 5 10 15

 Glu Ile Arg Asn
 20

 <210> 388
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 388
 Pro Gln Ala Gln Gly Ser Val Gln Pro Gln Gln Leu Pro Gln Phe Gln
 1 5 10 15

 Glu Ile Arg Asn
 20

 <210> 389
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

 <400> 389
 Pro Gln Gln Leu Pro Gln Phe Glu Glu Ile Arg Asn Leu Ala Leu Gln
 1 5 10 15

 Thr Leu Pro Ala
 20

 <210> 390
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 390
 Pro Gln Gln Leu Pro Gln Phe Glu Ile Arg Asn Leu Ala Leu Gln Thr
 1 5 10 15

 Leu Pro Ala Met
 20

 <210> 391
 <211> 16
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 391
 Pro Gln Gln Leu Pro Gln Phe Glu Glu Ile Arg Asn Leu Ala Arg Lys
 1 5 10 15

 <210> 392
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 392
 Pro Gln Gln Leu Pro Gln Phe Glu Glu Ile Arg Asn Leu Ala Leu Glu
 1 5 10 15

 Thr Leu Pro Ala
 20

 <210> 393
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

<400> 393
 Pro Gln Gln Leu Pro Gln Phe Glu Ala Ile Arg Asn Leu Ala Leu Gln
 1 5 10 15

Thr Leu Pro Ala
 20

<210> 394
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 394
 Pro Gln Gln Leu Pro Gln Phe Ala Glu Ile Arg Asn Leu Ala Leu Gln
 1 5 10 15

Thr Leu Pro Ala
 20

<210> 395
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 395
 Pro Gln Gln Leu Pro Gln Phe Gln Glu Ile Arg Asn Leu Ala Leu Gln
 1 5 10 15

Thr Leu Pro Ala
 20

<210> 396
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 396
 Glu Ile Arg Asn Leu Ala Leu Gln Thr Leu Pro Ala Met Cys Asn Val
 1 5 10 15

Tyr Ile Pro Pro
 20

<210> 397
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 397
 Glu Ile Arg Asn Leu Ala Leu Gln Thr Leu Pro Ser Met Cys Asn Val
 1 5 10 15

Tyr Ile Pro Pro
 20

<210> 398
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 398
 Glu Ile Arg Asn Leu Ala Leu Glu Thr Leu Pro Ala Met Cys Asn Val
 1 5 10 15

Tyr Ile Pro Pro
 20

<210> 399
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 399
 Glu Ile Arg Asn Leu Ala Leu Gln Thr Leu Pro Arg Met Cys Asn Val
 1 5 10 15

Tyr Ile Pro Pro
 20

<210> 400
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 400
 Thr Leu Pro Ala Met Cys Asn Val Tyr Ile Pro Pro Tyr Cys Thr Ile
 1 5 10 15

Ala Pro Phe Gly
 20

<210> 401
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 401
 Thr Leu Pro Ser Met Cys Asn Val Tyr Ile Pro Pro Tyr Cys Thr Ile
 1 5 10 15

Ala Pro Phe Gly
 20

<210> 402
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 402
 Thr Leu Pro Ala Met Cys Asn Val Tyr Ile Pro Pro Tyr Cys Thr Ile
 1 5 10 15

Val Pro Phe Gly
 20

<210> 403
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 403
 Thr Leu Pro Ala Met Cys Asn Val Tyr Ile Pro Pro Tyr Cys Ala Met
 1 5 10 15

Ala Pro Phe Gly
 20

<210> 404
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 404
 Thr Leu Pro Ala Met Cys Asn Val Tyr Ile Pro Pro Tyr Cys Thr Ile
 1 5 10 15

Thr Pro Phe Gly
 20

<210> 405
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 405

Thr Leu Pro Ala Met Cys Asn Val Tyr Ile Pro Pro Tyr Cys Thr Ile
 1 5 10 15

Ala Pro Val Gly
 20

<210> 406
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 406
 Thr Leu Pro Ala Met Cys Asn Val Tyr Ile Pro Pro Tyr Cys Ser Thr
 1 5 10 15

Thr Ile Ala Pro
 20

<210> 407
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 407
 Thr Leu Pro Arg Met Cys Asn Val Tyr Ile Pro Pro Tyr Cys Ser Thr
 1 5 10 15

Thr Ile Ala Pro
 20

<210> 408
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 408
 Thr Leu Pro Arg Met Cys Asn Val Tyr Ile Pro Pro Tyr Cys Ser Thr
 1 5 10 15

Thr Thr Ala Pro
 20

<210> 409
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 409
 Thr Leu Pro Ala Met Cys Asn Val Tyr Ile Pro Pro His Cys Ser Thr

1	5	10	15
---	---	----	----

Thr Ile Ala Pro
20

<210> 410

<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 410
Tyr Ile Pro Pro Tyr Cys Thr Ile Ala Pro Phe Gly Ile Phe Gly Thr
1 5 10 15

Asn Tyr Arg

<210> 411
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 411
Tyr Ile Pro Pro Tyr Cys Thr Ile Val Pro Phe Gly Ile Phe Gly Thr
1 5 10 15

Asn Tyr Arg

<210> 412
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 412
Tyr Ile Pro Pro Tyr Cys Ala Met Ala Pro Phe Gly Ile Phe Gly Thr
1 5 10 15

Asn Tyr Arg

<210> 413
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 413
Tyr Ile Pro Pro Tyr Cys Thr Met Ala Pro Phe Gly Ile Phe Gly Thr

1	5	10	15
---	---	----	----

Asn Tyr Arg

<210> 414
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 414
 Tyr Ile Pro Pro Tyr Cys Thr Ile Thr Pro Phe Gly Ile Phe Gly Thr
 1 5 10 15

Asn

<210> 415
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 415
 Tyr Ile Pro Pro Tyr Cys Thr Ile Ala Pro Val Gly Ile Phe Gly Thr
 1 5 10 15

Asn Tyr Arg

<210> 416
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 416
 Tyr Ile Pro Pro Tyr Cys Ser Thr Thr Ile Ala Pro Val Gly Ile Phe
 1 5 10 15

Gly Thr Asn

<210> 417
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 417
 Tyr Ile Pro Pro Tyr Cys Ser Thr Thr Thr Ala Pro Phe Gly Ile Phe
 1 5 10 15

Gly Thr Asn

<210> 418
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 418
Tyr Ile Pro Pro His Cys Ser Thr Thr Ile Ala Pro Phe Gly Ile Phe
1 5 10 15

Gly Thr Asn

<210> 419
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 419
Tyr Ile Pro Pro His Cys Ser Thr Thr Ile Ala Pro Phe Gly Ile Ser
1 5 10 15

Gly Thr Asn

<210> 420
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 420
Ile Pro Pro Tyr Cys Ser Thr Thr Ile Ala Pro Phe Gly Ile Phe Gly
1 5 10 15

Thr Asn Tyr Arg
20

<210> 421
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 421
Gly Thr Ala Asn Met Gln Val Asp Pro Ser Ser Gln Val Gln Trp Pro
1 5 10 15

Gln Gln Gln Pro
20

<210> 422
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 422
Gly Thr Ala Asn Ile Gln Val Asp Pro Ser Gly Gln Val Gln Trp Leu
1 5 10 15

Gln Gln Gln Leu
20

<210> 423
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 423
Ala Thr Ala Asn Met Gln Val Asp Pro Ser Gly Gln Val Pro Trp Pro
1 5 10 15

Gln Gln Gln Pro
20

<210> 424
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 424
Met Asn Ile Gln Val Asp Pro Ser Gly Gln Val Pro Trp Pro Gln Gln
1 5 10 15

Gln Pro Phe Pro
20

<210> 425
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 425
Ala Thr Ala Asn Met Gln Ala Asp Pro Ser Gly Gln Val Gln Trp Pro
1 5 10 15

Gln Gln Gln Pro

20

<210> 426
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 426
Thr Thr Ala Asn Ile Gln Val Asp Pro Ser Gly Gln Val Gln Trp Pro
1 5 10 15

Gln Gln Gln Gln
20

<210> 427
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 427
Ala Thr Ala Asn Met Gln Val Asp Pro Ser Gly Gln Val Gln Trp Pro
1 5 10 15

Gln Gln Gln Pro
20

<210> 428
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 428
Gln Ile Val Phe Pro Ser Gly Gln Val Gln Trp Pro Gln Gln Gln Gln
1 5 10 15

Pro Phe Pro

<210> 429
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 429
Pro Ser Ser Gln Val Gln Trp Pro Gln Gln Gln Pro Val Pro Gln Pro
1 5 10 15

His Gln Pro Phe
20

<210> 430
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 430
 Pro Ser Gly Gln Val Gln Trp Leu Gln Gln Gln Leu Val Pro Gln Leu
 1 5 10 15

Gln Gln Pro Leu
 20

<210> 431
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 431
 Pro Ser Gly Gln Val Pro Trp Pro Gln Gln Gln Pro Phe Pro Gln Pro
 1 5 10 15

His Gln Pro Phe
 20

<210> 432
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 432
 Pro Ser Gly Gln Val Gln Trp Pro Gln Gln Gln Pro Phe Leu Gln Pro
 1 5 10 15

His Gln Pro Phe
 20

<210> 433
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 433
 Pro Ser Gly Gln Val Gln Trp Pro Gln Gln Gln Gln Pro Phe Pro Gln
 1 5 10 15

Pro Gln Gln Pro
 20

<210> 434
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 434
Pro Ser Gly Gln Val Gln Trp Pro Gln Gln Gln Pro Phe Arg Gln Pro
1 5 10 15
Gln Gln Pro Phe
20

<210> 435
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 435
Pro Ser Gly Gln Val Gln Trp Pro Gln Gln Gln Pro Phe Pro Gln Pro
1 5 10 15
Gln Gln Pro Phe
20

<210> 436
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 436
Gln Gln Gln Pro Val Pro Gln Pro His Gln Pro Phe Ser Gln Gln Pro
1 5 10 15
Gln Gln Thr Phe
20

<210> 437
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 437
Gln Gln Gln Leu Val Pro Gln Leu Gln Gln Pro Leu Ser Gln Gln Pro
1 5 10 15
Gln Gln Thr Phe
20

<210> 438

<211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 438
 Gln Gln Gln Pro Phe Pro Gln Pro His Gln Pro Phe Ser Gln Gln Pro
 1 5 10 15
 Gln Gln Thr Phe
 20

 <210> 439
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 439
 Gln Gln Gln Pro Phe Leu Gln Pro His Gln Pro Phe Ser Gln Gln Pro
 1 5 10 15
 Gln Gln Ile Phe
 20

 <210> 440
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 440
 Gln Gln Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Phe Ser Gln Gln
 1 5 10 15
 Pro Gln Gln Ile
 20

 <210> 441
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 441
 Gln Gln Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Gln Gln Pro Phe
 1 5 10 15
 Pro Gln Pro Gln
 20

 <210> 442
 <211> 20

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 442
 Gln Gln Gln Pro Phe Arg Gln Pro Gln Gln Pro Phe Tyr Gln Gln Pro
 1 5 10 15

 Gln His Thr Phe
 20

 <210> 443
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 443
 Gln Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Phe Cys Gln Gln Pro
 1 5 10 15

 Gln Arg Thr Ile
 20

 <210> 444
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 444
 Gln Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Phe Cys Glu Gln Pro
 1 5 10 15

 Gln Arg Thr Ile
 20

 <210> 445
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 445
 His Gln Pro Phe Ser Gln Gln Pro Gln Gln Thr Phe Pro Gln Pro Gln
 1 5 10 15

 Gln Thr Phe Pro
 20

 <210> 446

<211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 446
 Gln Gln Pro Leu Ser Gln Gln Pro Gln Gln Thr Phe Pro Gln Pro Gln
 1 5 10 15

 Gln Thr Phe Pro
 20

 <210> 447
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 447
 His Gln Pro Phe Ser Gln Gln Pro Gln Gln Ile Phe Pro Gln Pro Gln
 1 5 10 15

 Gln Thr Phe Pro
 20

 <210> 448
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 448
 Gln Gln Pro Phe Ser Gln Gln Pro Gln Gln Ile Phe Pro Gln Pro Gln
 1 5 10 15

 Gln Thr Phe Pro
 20

 <210> 449
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 449
 Gln Gln Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Gln Leu Pro
 1 5 10 15

 Phe Pro Gln Gln
 20

 <210> 450
 <211> 20

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 450
 Gln Gln Pro Phe Tyr Gln Gln Pro Gln His Thr Phe Pro Gln Pro Gln
 1 5 10 15

 Gln Thr Cys Pro
 20

 <210> 451
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 451
 Gln Gln Pro Phe Cys Gln Gln Pro Gln Arg Thr Ile Pro Gln Pro His
 1 5 10 15

 Gln Thr Phe His
 20

 <210> 452
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 452
 Gln Gln Pro Phe Cys Gln Gln Pro Gln Gln Thr Ile Pro Gln Pro His
 1 5 10 15

 Gln Thr Phe His
 20

 <210> 453
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 453
 Gln Gln Pro Phe Cys Glu Gln Pro Gln Arg Thr Ile Pro Gln Pro His
 1 5 10 15

 Gln Thr Phe His
 20

 <210> 454
 <211> 20
 <212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 454

Gln Gln Thr Phe Pro Gln Pro Gln Gln Thr Phe Pro His Gln Pro Gln
1 5 10 15

Gln Gln Phe Pro
20

<210> 455

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 455

Gln Gln Ile Phe Pro Gln Pro Gln Gln Thr Phe Pro His Gln Pro Gln
1 5 10 15

Gln Gln Phe Pro
20

<210> 456

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 456

Gln Gln Ile Phe Pro Gln Pro Gln Gln Thr Phe Pro His Gln Pro Gln
1 5 10 15

Gln Ala Phe Pro
20

<210> 457

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 457

Gln Arg Thr Ile Pro Gln Pro His Gln Thr Phe His His Gln Pro Gln
1 5 10 15

Gln Thr Phe Pro
20

<210> 458

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 458

Gln Thr Phe Pro His Gln Pro Gln Gln Ala Phe Pro Gln Pro Gln Gln
1 5 10 15

Thr Phe Pro His
20

<210> 459

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 459

Gln Thr Phe His His Gln Pro Gln Gln Thr Phe Pro Gln Pro Gln Gln
1 5 10 15

Thr Tyr Pro His
20

<210> 460

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 460

Gln Thr Phe His His Gln Pro Gln Gln Thr Phe Pro Gln Pro Glu Gln
1 5 10 15

Thr Tyr Pro His
20

<210> 461

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 461

Gln Ala Phe Pro Gln Pro Gln Gln Thr Phe Pro His Gln Pro Gln Gln
1 5 10 15

Gln Phe Pro Gln
20

<210> 462

<211> 20

<212> PRT

<213> Artificial Sequence

<220>
 <223> peptide

 <400> 462
 Gln His Thr Phe Pro Gln Pro Gln Gln Thr Cys Pro His Gln Pro Gln
 1 5 10 15

 Gln Gln Phe Pro
 20

 <210> 463
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 463
 Gln Thr Phe Pro Gln Pro Gln Gln Thr Tyr Pro His Gln Pro Gln Gln
 1 5 10 15

 Gln Phe Pro Gln
 20

 <210> 464
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 464
 Gln Thr Phe Pro Gln Pro Glu Gln Thr Tyr Pro His Gln Pro Gln Gln
 1 5 10 15

 Gln Phe Pro Gln
 20

 <210> 465
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 465
 Gln Thr Phe Pro His Gln Pro Gln Gln Gln Phe Pro Gln Pro Gln Gln
 1 5 10 15

 Pro Gln Gln Gln
 20

 <210> 466
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

 <400> 466
 Gln Thr Phe Pro His Gln Pro Gln Gln Gln Val Pro Gln Pro Gln Gln
 1 5 10 15

 Pro Gln Gln Pro
 20

 <210> 467
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 467
 Gln Thr Phe Pro His Gln Pro Gln Gln Gln Phe Ser Gln Pro Gln Gln
 1 5 10 15

 Pro Gln Gln Gln
 20

 <210> 468
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 468
 Gln Thr Cys Pro His Gln Pro Gln Gln Gln Phe Pro Gln Pro Gln Gln
 1 5 10 15

 Pro Gln Gln Pro
 20

 <210> 469
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 469
 Gln Thr Tyr Pro His Gln Pro Gln Gln Gln Phe Pro Gln Thr Gln Gln
 1 5 10 15

 Pro Gln Gln Pro
 20

 <210> 470
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>

<223> peptide

<400> 470

Gln Gln Phe Pro Gln Pro Gln Gln Pro Gln Gln Gln Phe Leu Gln Pro
1 5 10 15

Gln Gln Pro Phe
20

<210> 471

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 471

Gln Gln Val Pro Gln Pro Gln Gln Pro Gln Gln Pro Phe Leu Gln Pro
1 5 10 15

Gln Gln Pro Phe
20

<210> 472

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 472

Gln Gln Phe Ser Gln Pro Gln Gln Pro Gln Gln Gln Phe Ile Gln Pro
1 5 10 15

Gln Gln Pro Phe
20

<210> 473

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 473

Gln Gln Phe Pro Gln Pro Gln Gln Pro Gln Gln Gln Phe Leu Gln Pro
1 5 10 15

Arg Gln Pro Phe
20

<210> 474

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 474
 Gln Gln Phe Pro Gln Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln Gln
 1 5 10 15

Pro Gln Gln Gln
 20

<210> 475
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 475
 Gln Gln Phe Pro Gln Thr Gln Gln Pro Gln Gln Pro Phe Pro Gln Pro
 1 5 10 15

Gln Gln Thr Phe
 20

<210> 476
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 476
 Pro Gln Gln Gln Phe Leu Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro
 1 5 10 15

Gln Gln Pro Tyr
 20

<210> 477
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 477
 Pro Gln Gln Gln Phe Ile Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro
 1 5 10 15

Gln Gln Thr Tyr
 20

<210> 478
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>

<223> peptide

<400> 478

Pro Gln Gln Gln Phe Ile Gln Pro Gln Gln Pro Gln Gln Thr Tyr Pro
1 5 10 15

Gln Arg Pro Gln
20

<210> 479

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 479

Pro Gln Gln Gln Phe Leu Gln Pro Arg Gln Pro Phe Pro Gln Gln Pro
1 5 10 15

Gln Gln Pro Tyr
20

<210> 480

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 480

Pro Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Gln Phe Pro Gln Pro
1 5 10 15

Gln Gln Pro Gln
20

<210> 481

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 481

Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Gln Gln Pro Phe Pro
1 5 10 15

Gln Pro Gln Gln
20

<210> 482

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 482
 Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln Thr Phe Pro Gln Gln Pro
 1 5 10 15

Gln Leu Pro Phe
 20

<210> 483
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 483
 Pro Gln Gln Gln Phe Pro Gln Pro Gln Gln Pro Gln Gln Pro Phe Pro
 1 5 10 15

Gln Gln Pro Gln
 20

<210> 484
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 484
 Gln Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Gln Phe Pro
 1 5 10 15

Gln Pro Gln Gln
 20

<210> 485
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 485
 Gln Gln Pro Gln Gln Gln Phe Pro Gln Pro Gln Gln Pro Gln Gln Pro
 1 5 10 15

Phe Pro Gln Pro
 20

<210> 486
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 486
 Gln Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Gln
 1 5 10 15

Leu Pro Phe Pro
 20

<210> 487
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 487
 Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Pro Tyr Pro Gln Gln Pro
 1 5 10 15

Gln Gln Pro Phe
 20

<210> 488
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 488
 Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln Thr Gln
 1 5 10 15

Gln Pro Gln Gln
 20

<210> 489
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 489
 Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Thr Tyr Pro Gln Arg Pro
 1 5 10 15

Gln Gln Pro Phe
 20

<210> 490
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 490
 Arg Gln Pro Phe Pro Gln Gln Pro Gln Gln Pro Tyr Pro Gln Gln Pro
 1 5 10 15

Gln Gln Pro Phe
 20

<210> 491
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 491
 Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Gln Leu Pro Phe Pro Gln
 1 5 10 15

Gln Pro Gln Gln
 20

<210> 492
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 492
 Gln Gln Pro Phe Pro Gln Pro Gln Gln Ala Gln Leu Pro Phe Pro Gln
 1 5 10 15

Gln Pro Gln Gln
 20

<210> 493
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 493
 Gln Gln Thr Phe Pro Gln Gln Pro Gln Leu Pro Phe Pro Gln Gln Pro
 1 5 10 15

Gln Gln Pro Phe
 20

<210> 494
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 494

Gln Gln Pro Tyr Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln Thr Gln
 1 5 10 15

Gln Pro Gln Gln
 20

<210> 495
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 495
 Gln Gln Pro Phe Pro Gln Thr Gln Gln Pro Gln Gln Pro Phe Pro Gln
 1 5 10 15

Gln Pro Gln Gln
 20

<210> 496
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 496
 Gln Gln Thr Tyr Pro Gln Arg Pro Gln Gln Pro Phe Pro Gln Thr Gln
 1 5 10 15

Gln Pro Gln Gln
 20

<210> 497
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 497
 Gln Pro Gln Leu Pro Phe Pro Gln Gln Pro Gln Gln Gln Pro Gln Gln
 1 5 10 15

Pro Phe Pro Gln
 20

<210> 498
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 498
 Gln Ala Gln Leu Pro Phe Pro Gln Gln Pro Gln Gln Pro Leu Pro Gln

1	5	10	15
---	---	----	----

Pro Gln Gln Pro
20

<210> 499
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 499
 Gln Leu Pro Phe Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln Pro Gln
 1 5 10 15

Gln Pro Gln Gln
20

<210> 500
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 500
 Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln
 1 5 10 15

Thr Gln Gln Pro
20

<210> 501
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 501
 Gln Pro Gln Gln Pro Phe Pro Gln Thr Gln Gln Pro Gln Gln Pro Phe
 1 5 10 15

Pro Gln Gln Pro
20

<210> 502
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 502
 Thr Gln Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Pro Phe
 1 5 10 15

Pro Gln Thr Gln
20

<210> 503
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 503
Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln Thr Gln Gln Pro Gln Gln
1 5 10 15

Pro Phe Pro Gln
20

<210> 504
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 504
Gln Gln Pro Phe Pro Gln Thr Gln Gln Pro Gln Gln Leu Phe Pro Gln
1 5 10 15

Ser Gln Gln Pro
20

<210> 505
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 505
Gln Gln Pro Phe Pro Gln Thr Gln Gln Pro Gln Gln Pro Phe Pro Gln
1 5 10 15

Leu Gln Gln Pro
20

<210> 506
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 506
Gln Gln Pro Phe Pro Gln Thr Gln Gln Pro Gln Gln Pro Phe Pro Gln
1 5 10 15

Ser Gln Gln Pro
20

<210> 507
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 507
Gln Gln Pro Phe Pro Gln Thr Gln Gln Pro Gln Gln Pro Phe Pro Gln
1 5 10 15

Ser Lys Gln Pro
20

<210> 508
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 508
Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln
1 5 10 15

Leu Gln Gln Pro
20

<210> 509
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 509
Gln Gln Pro Leu Pro Gln Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln
1 5 10 15

Ser Gln Gln Pro
20

<210> 510
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 510
Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln
1 5 10 15

Ser Gln Gln Pro
20

<210> 511
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 511
Gln Pro Gln Gln Leu Phe Pro Gln Ser Gln Gln Pro Gln Gln Gln Phe
1 5 10 15

Ser Gln Pro Gln
20

<210> 512
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 512
Gln Pro Gln Gln Pro Phe Pro Gln Leu Gln Gln Pro Gln Gln Pro Phe
1 5 10 15

Pro Gln Pro Gln
20

<210> 513
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 513
Gln Pro Gln Gln Pro Phe Pro Gln Ser Gln Gln Pro Gln Gln Pro Phe
1 5 10 15

Pro Gln Pro Gln
20

<210> 514
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 514
Gln Pro Gln Gln Pro Phe Pro Gln Ser Lys Gln Pro Gln Gln Pro Phe
1 5 10 15

Pro Gln Pro Gln
20

<210> 515
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 515
Gln Pro Gln Gln Pro Phe Pro Gln Leu Gln Gln Pro Gln Gln Pro Leu
1 5 10 15

Pro Gln Pro Gln
20

<210> 516
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 516
Ser Gln Gln Pro Gln Gln Gln Phe Ser Gln Pro Gln Gln Gln Phe Pro
1 5 10 15

Gln Pro Gln Gln
20

<210> 517
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 517
Leu Gln Gln Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln Gln Leu Pro
1 5 10 15

Gln Pro Gln Gln
20

<210> 518
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 518
Ser Gln Gln Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln Gln Phe Pro
1 5 10 15

Gln Pro Gln Gln

20

<210> 519
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 519
Ser Lys Gln Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Gln Gln
1 5 10 15

Ser Phe Pro Gln
20

<210> 520
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 520
Leu Gln Gln Pro Gln Gln Pro Leu Pro Gln Pro Gln Gln Pro Gln Gln
1 5 10 15

Pro Phe Pro Gln
20

<210> 521
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 521
Ser Gln Gln Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Gln Gln
1 5 10 15

Ser Phe Pro Gln
20

<210> 522
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 522
Ser Gln Pro Gln Gln Gln Phe Pro Gln Pro Gln Gln Pro Gln Gln Ser
1 5 10 15

Phe Pro Gln Gln

20

<210> 523
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 523
Pro Gln Pro Gln Gln Gln Leu Pro Gln Pro Gln Gln Pro Gln Gln Ser
1 5 10 15

Phe Pro Gln Gln
20

<210> 524
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 524
Pro Gln Pro Gln Gln Gln Phe Pro Gln Pro Gln Gln Pro Gln Gln Ser
1 5 10 15

Phe Pro Gln Gln
20

<210> 525
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 525
Pro Gln Pro Gln Gln Pro Gln Gln Ser Phe Pro Gln Gln Gln Pro Ser
1 5 10 15

Leu Ile Gln Gln
20

<210> 526
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 526
Pro Gln Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln Gln Gln Gln Pro
1 5 10 15

Leu Ile Gln Pro
20

<210> 527
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 527
Pro Gln Pro Gln Gln Pro Gln Gln Ser Phe Pro Gln Gln Gln Gln Pro
1 5 10 15

Leu Ile Gln Pro
20

<210> 528
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 528
Gln Pro Gln Gln Pro Gln Gln Ser Phe Pro Gln Gln Gln Pro Pro Phe
1 5 10 15

Ile Gln Pro Ser
20

<210> 529
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 529
Gln Pro Gln Gln Pro Gln Gln Ser Phe Pro Gln Gln Gln Arg Pro Phe
1 5 10 15

Ile Gln Pro Ser
20

<210> 530
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 530
Gln Pro Gln Gln Pro Gln Gln Ser Phe Pro Gln Gln Gln Pro Ser Leu
1 5 10 15

Ile Gln Gln Ser
20

<210> 531
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 531
 Phe Pro Gln Gln Gln Pro Pro Phe Ile Gln Pro Ser Leu Gln Gln Gln
 1 5 10 15
 Val Asn Pro Cys
 20

 <210> 532
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 532
 Phe Pro Gln Gln Gln Arg Pro Phe Ile Gln Pro Ser Leu Gln Gln Gln
 1 5 10 15
 Leu Asn Pro Cys
 20

 <210> 533
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 533
 Phe Pro Gln Gln Gln Pro Ser Leu Ile Gln Gln Ser Leu Gln Gln Gln
 1 5 10 15
 Leu Asn Pro Cys
 20

 <210> 534
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 534
 Phe Pro Gln Gln Gln Gln Pro Leu Ile Gln Pro Tyr Leu Gln Gln Gln
 1 5 10 15
 Met Asn Pro Cys
 20

 <210> 535

<211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 535
 Phe Pro Gln Gln Gln Gln Pro Ala Ile Gln Ser Phe Leu Gln Gln Gln
 1 5 10 15

 Met Asn Pro Cys
 20

 <210> 536
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 536
 Ile Gln Pro Ser Leu Gln Gln Gln Val Asn Pro Cys Lys Asn Phe Leu
 1 5 10 15

 Leu Gln Gln Cys
 20

 <210> 537
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 537
 Ile Gln Pro Ser Leu Gln Gln Gln Leu Asn Pro Cys Lys Asn Ile Leu
 1 5 10 15

 Leu Gln Gln Ser
 20

 <210> 538
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 538
 Ile Gln Gln Ser Leu Gln Gln Gln Leu Asn Pro Cys Lys Asn Phe Leu
 1 5 10 15

 Leu Gln Gln Cys
 20

 <210> 539
 <211> 20

<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 539
Ile Gln Pro Tyr Leu Gln Gln Gln Met Asn Pro Cys Lys Asn Tyr Leu
1 5 10 15
Leu Gln Gln Cys
20

<210> 540
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 540
Ile Gln Ser Phe Leu Gln Gln Gln Met Asn Pro Cys Lys Asn Phe Leu
1 5 10 15
Leu Gln Gln Cys
20

<210> 541
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 541
Val Asn Pro Cys Lys Asn Phe Leu Leu Gln Gln Cys Lys Pro Val Ser
1 5 10 15
Leu Val Ser Ser
20

<210> 542
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 542
Leu Asn Pro Cys Lys Asn Ile Leu Leu Gln Gln Ser Lys Pro Ala Ser
1 5 10 15
Leu Val Ser Ser
20

<210> 543

<211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 543
 Leu Asn Pro Cys Lys Asn Phe Leu Leu Gln Gln Cys Lys Pro Val Ser
 1 5 10 15

 Leu Val Ser Ser
 20

 <210> 544
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 544
 Met Asn Pro Cys Lys Asn Tyr Leu Leu Gln Gln Cys Asn Pro Val Ser
 1 5 10 15

 Leu Val Ser Ser
 20

 <210> 545
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 545
 Met Asn Pro Cys Lys Asn Phe Leu Leu Gln Gln Cys Asn His Val Ser
 1 5 10 15

 Leu Val Ser Ser
 20

 <210> 546
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 546
 Leu Gln Gln Cys Lys Pro Val Ser Leu Val Ser Ser Leu Trp Ser Met
 1 5 10 15

 Ile Trp Pro Gln
 20

 <210> 547
 <211> 20

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 547
 Leu Gln Gln Ser Lys Pro Ala Ser Leu Val Ser Ser Leu Trp Ser Ile
 1 5 10 15

 Ile Trp Pro Gln
 20

 <210> 548
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 548
 Leu Gln Gln Cys Lys Pro Val Ser Leu Val Ser Ser Leu Trp Ser Met
 1 5 10 15

 Ile Leu Pro Arg
 20

 <210> 549
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 549
 Leu Gln Gln Cys Asn Pro Val Ser Leu Val Ser Ser Leu Val Ser Met
 1 5 10 15

 Ile Leu Pro Arg
 20

 <210> 550
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 550
 Leu Gln Gln Cys Asn His Val Ser Leu Val Ser Ser Leu Val Ser Ile
 1 5 10 15

 Ile Leu Pro Arg
 20

 <210> 551
 <211> 20
 <212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 551

Leu Val Ser Ser Leu Trp Ser Met Ile Trp Pro Gln Ser Asp Cys Gln
1 5 10 15

Val Met Arg Gln
20

<210> 552

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 552

Leu Val Ser Ser Leu Trp Ser Ile Ile Trp Pro Gln Ser Asp Cys Gln
1 5 10 15

Val Met Arg Gln
20

<210> 553

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 553

Leu Val Ser Ser Leu Trp Ser Met Ile Leu Pro Arg Ser Asp Cys Gln
1 5 10 15

Val Met Arg Gln
20

<210> 554

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 554

Leu Val Ser Ser Leu Trp Ser Ile Ile Leu Pro Pro Ser Asp Cys Gln
1 5 10 15

Val Met Arg Gln
20

<210> 555

<211> 20

<212> PRT

<213> Artificial Sequence
 <220>
 <223> peptide
 <400> 555
 Leu Val Ser Ser Leu Val Ser Met Ile Leu Pro Arg Ser Asp Cys Lys
 1 5 10 15
 Val Met Arg Gln
 20
 <210> 556
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 556
 Leu Val Ser Ser Leu Val Ser Met Ile Leu Pro Arg Ser Asp Cys Gln
 1 5 10 15
 Val Met Gln Gln
 20
 <210> 557
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 557
 Leu Val Ser Ser Leu Val Ser Ile Ile Leu Pro Arg Ser Asp Cys Gln
 1 5 10 15
 Val Met Gln Gln
 20
 <210> 558
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 558
 Ile Trp Pro Gln Ser Asp Cys Gln Val Met Arg Gln Gln Cys Cys Gln
 1 5 10 15
 Gln Leu Ala Gln
 20
 <210> 559
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

 <400> 559
 Ile Leu Pro Arg Ser Asp Cys Gln Val Met Arg Gln Gln Cys Cys Gln
 1 5 10 15

 Gln Leu Ala Gln
 20

 <210> 560
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 560
 Ile Leu Pro Pro Ser Asp Cys Gln Val Met Arg Gln Gln Cys Cys Gln
 1 5 10 15

 Gln Leu Ala Gln
 20

 <210> 561
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 561
 Ile Leu Pro Arg Ser Asp Cys Lys Val Met Arg Gln Gln Cys Cys Gln
 1 5 10 15

 Gln Leu Ala Arg
 20

 <210> 562
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 562
 Ile Leu Pro Arg Ser Asp Cys Gln Val Met Gln Gln Gln Cys Cys Gln
 1 5 10 15

 Gln Leu Ala Gln
 20

 <210> 563
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

 <400> 563
 Val Met Arg Gln Gln Cys Cys Gln Gln Leu Ala Gln Ile Pro Gln Gln
 1 5 10 15

 Leu Gln Cys Ala
 20

 <210> 564
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 564
 Val Met Arg Gln Gln Cys Cys Gln Gln Leu Ala Arg Ile Pro Gln Gln
 1 5 10 15

 Leu Gln Cys Ala
 20

 <210> 565
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 565
 Val Met Gln Gln Gln Cys Cys Gln Gln Leu Ala Gln Ile Pro Arg Gln
 1 5 10 15

 Leu Gln Cys Ala
 20

 <210> 566
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 566
 Val Met Gln Gln Gln Cys Cys Gln Gln Leu Ala Gln Ile Pro Gln Gln
 1 5 10 15

 Leu Gln Cys Ala
 20

 <210> 567
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>

<223> peptide

<400> 567

Gln Leu Ala Gln Ile Pro Gln Gln Leu Gln Cys Ala Ala Ile His Thr
1 5 10 15

Ile Ile His Ser
20

<210> 568

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 568

Gln Leu Ala Gln Ile Pro Gln Gln Leu Gln Cys Ala Ala Ile His Thr
1 5 10 15

Val Ile His Ser
20

<210> 569

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 569

Gln Leu Ala Gln Ile Pro Gln Gln Leu Gln Cys Ala Ala Ile His Ser
1 5 10 15

Val Val His Ser
20

<210> 570

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 570

Gln Leu Ala Gln Ile Pro Gln Gln Leu Gln Cys Ala Ala Ile His Ser
1 5 10 15

Ile Val His Ser
20

<210> 571

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 571

Gln Leu Ala Arg Ile Pro Gln Gln Leu Gln Cys Ala Ala Ile His Gly
1 5 10 15

Ile Val His Ser
20

<210> 572

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 572

Gln Leu Ala Gln Ile Pro Arg Gln Leu Gln Cys Ala Ala Ile His Ser
1 5 10 15

Val Val His Ser
20

<210> 573

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 573

Gln Leu Ala Gln Ile Pro Gln Gln Leu Gln Cys Ala Ala Ile His Ser
1 5 10 15

Val Ala His Ser
20

<210> 574

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 574

Leu Gln Cys Ala Ala Ile His Thr Ile Ile His Ser Ile Ile Met Gln
1 5 10 15

Gln Glu Gln Gln
20

<210> 575

<211> 20

<212> PRT

<213> Artificial Sequence

<220>
 <223> peptide

 <400> 575
 Leu Gln Cys Ala Ala Ile His Thr Val Ile His Ser Ile Ile Met Gln
 1 5 10 15

 Gln Glu Gln Gln
 20

 <210> 576
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 576
 Leu Gln Cys Ala Ala Ile His Ser Val Val His Ser Ile Ile Met Gln
 1 5 10 15

 Gln Gln Gln Gln
 20

 <210> 577
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 577
 Leu Gln Cys Ala Ala Ile His Ser Ile Val His Ser Ile Ile Met Gln
 1 5 10 15

 Gln Glu Gln Gln
 20

 <210> 578
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 578
 Leu Gln Cys Ala Ala Ile His Ser Val Val His Ser Ile Ile Met Gln
 1 5 10 15

 Gln Glu Gln Gln
 20

 <210> 579
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>

<223> peptide

<400> 579

Leu Gln Cys Ala Ala Ile His Gly Ile Val His Ser Ile Ile Met Gln
1 5 10 15

Gln Glu Gln Gln
20

<210> 580

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 580

Leu Gln Cys Ala Ala Ile His Ser Val Ala His Ser Ile Ile Met Gln
1 5 10 15

Gln Glu Gln Gln
20

<210> 581

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 581

Ile Ile His Ser Ile Ile Met Gln Gln Glu Gln Gln Glu Gln Gln Gln
1 5 10 15

Gly Met His Ile
20

<210> 582

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 582

Val Ile His Ser Ile Ile Met Gln Gln Glu Gln Gln Gln Gly Met His
1 5 10 15

Ile Leu Leu Pro
20

<210> 583

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 583
 Val Val His Ser Ile Ile Met Gln Gln Gln Gln Gln Gln Gln Gln
 1 5 10 15

Gln Gly Ile Asp
 20

<210> 584
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 584
 Ile Val His Ser Ile Ile Met Gln Gln Glu Gln Gln Glu Gln Arg Gln
 1 5 10 15

Gly Val Gln Ile
 20

<210> 585
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 585
 Val Val His Ser Ile Ile Met Gln Gln Glu Gln Gln Glu Gln Leu Gln
 1 5 10 15

Gly Val Gln Ile
 20

<210> 586
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 586
 Ile Val His Ser Ile Ile Met Gln Gln Glu Gln Gln Gln Gln Gln Gln
 1 5 10 15

Gln Gln Gln Gln
 20

<210> 587
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 587
 Val Val His Ser Ile Val Met Gln Gln Glu Gln Gln Gln Gly Ile Gln
 1 5 10 15

Ile Leu Arg Pro
 20

<210> 588
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 588
 Val Ala His Ser Ile Ile Met Gln Gln Glu Gln Gln Gln Gly Val Pro
 1 5 10 15

Ile Leu Arg Pro
 20

<210> 589
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 589
 Gln Glu Gln Gln Glu Gln Gln Gln Gly Met His Ile Leu Leu Pro Leu
 1 5 10 15

Tyr Gln Gln Gln
 20

<210> 590
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 590
 Gln Gln Gln Gln Gln Gln Gln Gln Gln Gly Ile Asp Ile Phe Leu Pro
 1 5 10 15

Leu Ser Gln His
 20

<210> 591
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 591
 Gln Gln Gln Gln Gln Gln Gln Gln Gly Met His Ile Phe Leu Pro
 1 5 10 15

Leu Ser Gln Gln
 20

<210> 592
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 592
 Gln Glu Gln Gln Glu Gln Arg Gln Gly Val Gln Ile Leu Val Pro Leu
 1 5 10 15

Ser Gln Gln Gln
 20

<210> 593
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 593
 Gln Glu Gln Gln Glu Gln Leu Gln Gly Val Gln Ile Leu Val Pro Leu
 1 5 10 15

Ser Gln Gln Gln
 20

<210> 594
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 594
 Gln Glu Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gly
 1 5 10 15

Ile Gln Ile Met
 20

<210> 595
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 595

Gln Glu Gln Gln Gln Gly Ile Gln Ile Leu Arg Pro Leu Phe Gln Leu
 1 5 10 15

Val Gln Gly Gln
 20

<210> 596
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 596
 Gln Glu Gln Gln Gln Gly Val Pro Ile Leu Arg Pro Leu Phe Gln Leu
 1 5 10 15

Ala Gln Gly Leu
 20

<210> 597
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 597
 Gln Gln Gln Gln Gln Gln Gln Gly Ile Gln Ile Met Arg Pro Leu Phe
 1 5 10 15

Gln Leu Val Gln
 20

<210> 598
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 598
 Gly Met His Ile Leu Leu Pro Leu Tyr Gln Gln Gln Gln Val Gly Gln
 1 5 10 15

Gly Thr Leu Val
 20

<210> 599
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 599
 Gly Ile Asp Ile Phe Leu Pro Leu Ser Gln His Glu Gln Val Gly Gln

1	5	10	15
---	---	----	----

Gly Ser Leu Val
20

<210> 600
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 600
 Gly Met His Ile Phe Leu Pro Leu Ser Gln Gln Gln Gln Val Gly Gln
 1 5 10 15

Gly Ser Leu Val
20

<210> 601
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 601
 Gly Val Gln Ile Leu Val Pro Leu Ser Gln Gln Gln Gln Val Gly Gln
 1 5 10 15

Gly Thr Leu Val
20

<210> 602
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 602
 Gly Val Gln Ile Leu Val Pro Leu Ser Gln Gln Gln Gln Val Gly Gln
 1 5 10 15

Gly Ile Leu Val
20

<210> 603
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 603
 Gly Ile Gln Ile Met Arg Pro Leu Phe Gln Leu Val Gln Gly Gln Gly

1	5	10	15
---	---	----	----

Ile Ile Gln Pro
20

<210> 604
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 604
 Gly Ile Gln Ile Leu Arg Pro Leu Phe Gln Leu Val Gln Gly Gln Gly
 1 5 10 15

Ile Ile Gln Pro
20

<210> 605
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 605
 Gly Val Pro Ile Leu Arg Pro Leu Phe Gln Leu Ala Gln Gly Leu Gly
 1 5 10 15

Ile Ile Gln Pro
20

<210> 606
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 606
 Tyr Gln Gln Gln Gln Val Gly Gln Gly Thr Leu Val Gln Gly Gln Gly
 1 5 10 15

Ile Ile Gln Pro
20

<210> 607
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 607
 Ser Gln His Glu Gln Val Gly Gln Gly Ser Leu Val Gln Gly Gln Gly

1	5	10	15
---	---	----	----

Ile Ile Gln Pro
20

<210> 608
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 608
 Ser Gln Gln Gln Gln Val Gly Gln Gly Ser Leu Val Gln Gly Gln Gly
 1 5 10 15

Ile Ile Gln Pro
20

<210> 609
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 609
 Ser Gln Gln Gln Gln Val Gly Gln Gly Thr Leu Val Gln Gly Gln Gly
 1 5 10 15

Ile Ile Gln Pro
20

<210> 610
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 610
 Ser Gln Gln Gln Gln Val Gly Gln Gly Ile Leu Val Gln Gly Gln Gly
 1 5 10 15

Ile Ile Gln Pro
20

<210> 611
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 611
 Gly Thr Leu Val Gln Gly Gln Gly Ile Ile Gln Pro Gln Gln Pro Ala
 1 5 10 15

Gln Leu Glu Ala
20

<210> 612
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 612
Gly Ser Leu Val Gln Gly Gln Gly Ile Ile Gln Pro Gln Gln Pro Ala
1 5 10 15

Gln Leu Glu Ala
20

<210> 613
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 613
Phe Gln Leu Val Gln Gly Gln Gly Ile Ile Gln Pro Gln Gln Pro Ala
1 5 10 15

Gln Leu Glu Val
20

<210> 614
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 614
Phe Gln Leu Ala Gln Gly Leu Gly Ile Ile Gln Pro Gln Gln Pro Ala
1 5 10 15

Gln Leu Glu Gly
20

<210> 615
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 615
Ile Ile Gln Pro Gln Gln Pro Ala Gln Leu Glu Ala Ile Arg Ser Leu
1 5 10 15

Val Leu Gln Thr
20

<210> 616
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 616
Ile Ile Gln Pro Gln Gln Pro Ala Gln Leu Glu Val Ile Arg Ser Leu
1 5 10 15

Val Leu Gln Thr
20

<210> 617
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 617
Ile Ile Gln Pro Gln Gln Pro Ala Gln Leu Glu Val Ile Arg Ser Ser
1 5 10 15

Val Leu Gln Thr
20

<210> 618
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 618
Ile Ile Gln Pro Gln Gln Pro Ala Gln Tyr Glu Val Ile Arg Ser Leu
1 5 10 15

Val Leu Arg Thr
20

<210> 619
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 619
Ile Ile Gln Pro Gln Gln Pro Ala Gln Leu Glu Gly Ile Arg Ser Leu
1 5 10 15

Val Leu Lys Thr
20

<210> 620
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 620
Gln Leu Glu Ala Ile Arg Ser Leu Val Leu Gln Thr Leu Pro Thr Met
1 5 10 15

Cys Asn Val Tyr
20

<210> 621
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 621
Gln Leu Glu Ala Ile Arg Ser Leu Val Leu Gln Thr Leu Pro Ser Met
1 5 10 15

Cys Asn Val Tyr
20

<210> 622
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 622
Gln Leu Glu Val Ile Arg Ser Leu Val Leu Gln Thr Leu Ala Thr Met
1 5 10 15

Cys Asn Val Tyr
20

<210> 623
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 623
Gln Leu Glu Val Ile Arg Ser Ser Val Leu Gln Thr Leu Ala Thr Met
1 5 10 15

Cys Asn Val Tyr

20

<210> 624
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 624
Gln Leu Glu Val Ile Arg Ser Leu Val Leu Gly Thr Leu Pro Thr Met
1 5 10 15

Cys Asn Val Phe
20

<210> 625
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 625
Gln Tyr Glu Val Ile Arg Ser Leu Val Leu Arg Thr Leu Pro Asn Met
1 5 10 15

Cys Asn Val Tyr
20

<210> 626
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 626
Gln Leu Glu Gly Ile Arg Ser Leu Val Leu Lys Thr Leu Pro Thr Met
1 5 10 15

Cys Asn Val Tyr
20

<210> 627
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 627
Val Leu Gln Thr Leu Pro Thr Met Cys Asn Val Tyr Val Pro Pro Glu
1 5 10 15

Cys Ser Ile Ile
20

<210> 628
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 628
 Val Leu Gln Thr Leu Pro Ser Met Cys Asn Val Tyr Val Pro Pro Glu
 1 5 10 15

 Cys Ser Ile Met
 20

 <210> 629
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 629
 Val Leu Gln Thr Leu Ala Thr Met Cys Asn Val Tyr Val Pro Pro Tyr
 1 5 10 15

 Cys Ser Thr Ile
 20

 <210> 630
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 630
 Val Leu Gly Thr Leu Pro Thr Met Cys Asn Val Phe Val Pro Pro Glu
 1 5 10 15

 Cys Ser Thr Thr
 20

 <210> 631
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 631
 Val Leu Arg Thr Leu Pro Asn Met Cys Asn Val Tyr Val Arg Pro Asp
 1 5 10 15

 Cys Ser Thr Ile
 20

<210> 632
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 632
 Val Leu Lys Thr Leu Pro Thr Met Cys Asn Val Tyr Val Pro Pro Asp
 1 5 10 15

 Cys Ser Thr Ile
 20

 <210> 633
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 633
 Cys Asn Val Tyr Val Pro Pro Glu Cys Ser Ile Ile Lys Ala Pro Phe
 1 5 10 15

 Ser Ser Val Val
 20

 <210> 634
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 634
 Cys Asn Val Tyr Val Pro Pro Glu Cys Ser Ile Met Arg Ala Pro Phe
 1 5 10 15

 Ala Ser Ile Val
 20

 <210> 635
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 635
 Cys Asn Val Tyr Val Pro Pro Tyr Cys Ser Thr Ile Arg Ala Pro Phe
 1 5 10 15

 Ala Ser Ile Val
 20

<210> 636
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 636
Cys Asn Val Phe Val Pro Pro Glu Cys Ser Thr Thr Lys Ala Pro Phe
1 5 10 15

Ala Ser Ile Val
20

<210> 637
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 637
Cys Asn Val Tyr Val Arg Pro Asp Cys Ser Thr Ile Asn Ala Pro Phe
1 5 10 15

Ala Ser Ile Val
20

<210> 638
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 638
Cys Asn Val Tyr Val Pro Pro Asp Cys Ser Thr Ile Asn Val Pro Tyr
1 5 10 15

Ala Asn Ile Asp
20

<210> 639
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 639
Cys Ser Ile Ile Lys Ala Pro Phe Ser Ser Val Val Ala Gly Ile Gly
1 5 10 15

Gly Gln

<210> 640
 <211> 18
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 640
 Cys Ser Ile Met Arg Ala Pro Phe Ala Ser Ile Val Ala Gly Ile Gly
 1 5 10 15

Gly Gln

<210> 641
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 641
 Cys Ser Thr Ile Arg Ala Pro Phe Ala Ser Ile Val Ala Gly Ile Gly
 1 5 10 15

Gly Gln Tyr Arg
20

<210> 642
 <211> 18
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 642
 Cys Ser Thr Ile Arg Ala Pro Phe Ala Ser Ile Val Ala Ser Ile Gly
 1 5 10 15

Gly Gln

<210> 643
 <211> 18
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 643
 Cys Ser Thr Thr Lys Ala Pro Phe Ala Ser Ile Val Ala Asp Ile Gly
 1 5 10 15

Gly Gln

<210> 644

<211> 18
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 644
 Cys Ser Thr Ile Asn Ala Pro Phe Ala Ser Ile Val Ala Gly Ile Ser
 1 5 10 15

Gly Gln

<210> 645
 <211> 18
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 645
 Cys Ser Thr Ile Asn Val Pro Tyr Ala Asn Ile Asp Ala Gly Ile Gly
 1 5 10 15

Gly Gln

<210> 646
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 646
 Pro Gln Gln Pro Phe Pro Leu Gln Pro Gln Gln Ser Phe Leu Trp Gln
 1 5 10 15

Ser Gln Gln Pro
20

<210> 647
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 647
 Pro Gln Gln Ser Phe Leu Trp Gln Ser Gln Gln Pro Phe Leu Gln Gln
 1 5 10 15

Pro Gln Gln Pro
20

<210> 648
 <211> 20

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 648
 Ser Gln Gln Pro Phe Leu Gln Gln Pro Gln Gln Pro Ser Pro Gln Pro
 1 5 10 15

 Gln Gln Val Val
 20

 <210> 649
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 649
 Pro Gln Gln Pro Ser Pro Gln Pro Gln Gln Val Val Gln Ile Ile Ser
 1 5 10 15

 Pro Ala Thr Pro
 20

 <210> 650
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 650
 Gln Gln Val Val Gln Ile Ile Ser Pro Ala Thr Pro Thr Thr Ile Pro
 1 5 10 15

 Ser Ala Gly Lys
 20

 <210> 651
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 651
 Pro Ala Thr Pro Thr Thr Ile Pro Ser Ala Gly Lys Pro Thr Ser Ala
 1 5 10 15

 Pro Phe Pro Gln
 20

 <210> 652
 <211> 20
 <212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 652

Ser Ala Gly Lys Pro Thr Ser Ala Pro Phe Pro Gln Gln Gln Gln Gln
1 5 10 15

His Gln Gln Leu
20

<210> 653

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 653

Pro Phe Pro Gln Gln Gln Gln Gln His Gln Gln Leu Ala Gln Gln Gln
1 5 10 15

Ile Pro Val Val
20

<210> 654

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 654

His Gln Gln Leu Ala Gln Gln Gln Ile Pro Val Val Gln Pro Ser Ile
1 5 10 15

Leu Gln Gln Leu
20

<210> 655

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 655

Ile Pro Val Val Gln Pro Ser Ile Leu Gln Gln Leu Asn Pro Cys Lys
1 5 10 15

Val Phe Leu Gln
20

<210> 656

<211> 20

<212> PRT

<213> Artificial Sequence
 <220>
 <223> peptide
 <400> 656
 Leu Gln Gln Leu Asn Pro Cys Lys Val Phe Leu Gln Gln Gln Cys Ser
 1 5 10 15
 Pro Val Ala Met
 20
 <210> 657
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 657
 Val Phe Leu Gln Gln Gln Cys Ser Pro Val Ala Met Pro Gln Arg Leu
 1 5 10 15
 Ala Arg Ser Gln
 20
 <210> 658
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 658
 Pro Val Ala Met Pro Gln Arg Leu Ala Arg Ser Gln Met Leu Gln Gln
 1 5 10 15
 Ser Ser Cys His
 20
 <210> 659
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 659
 Ala Arg Ser Gln Met Leu Gln Gln Ser Ser Cys His Val Met Gln Gln
 1 5 10 15
 Gln Cys Cys Gln
 20
 <210> 660
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>

<223> peptide

<400> 660

Ser Ser Cys His Val Met Gln Gln Gln Cys Cys Gln Gln Leu Pro Gln
1 5 10 15

Ile Pro Gln Gln
20

<210> 661

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 661

Gln Cys Cys Gln Gln Leu Pro Gln Ile Pro Gln Gln Ser Arg Tyr Gln
1 5 10 15

Ala Ile Arg Ala
20

<210> 662

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 662

Pro Gln Ile Pro Gln Gln Ser Arg Tyr Glu Ala Ile Arg Ala Ile Ile
1 5 10 15

Tyr Ser Ile Ile
20

<210> 663

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 663

Ile Pro Gln Gln Ser Arg Tyr Gln Ala Ile Arg Ala Ile Ile Tyr Ser
1 5 10 15

Ile Ile Leu Gln
20

<210> 664

<211> 20

<212> PRT

<213> Artificial Sequence

<220>
 <223> peptide

 <400> 664
 Ala Ile Arg Ala Ile Ile Tyr Ser Ile Ile Leu Gln Glu Gln Gln Gln
 1 5 10 15

 Val Gln Gly Ser
 20

 <210> 665
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 665
 Ile Ile Leu Gln Glu Gln Gln Gln Val Gln Gly Ser Ile Gln Ser Gln
 1 5 10 15

 Gln Gln Gln Pro
 20

 <210> 666
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 666
 Val Gln Gly Ser Ile Gln Ser Gln Gln Gln Gln Pro Gln Gln Leu Gly
 1 5 10 15

 Gln Cys Val Ser
 20

 <210> 667
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 667
 Gln Gln Gln Pro Gln Gln Leu Gly Gln Cys Val Ser Gln Pro Gln Gln
 1 5 10 15

 Gln Ser Gln Gln
 20

 <210> 668
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>

<223> peptide

<400> 668

Gln Cys Val Ser Gln Pro Gln Gln Gln Ser Gln Gln Gln Leu Gly Gln
1 5 10 15

Gln Pro Gln Gln
20

<210> 669

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 669

Gln Ser Gln Gln Gln Leu Gly Gln Gln Pro Gln Gln Gln Gln Leu Ala
1 5 10 15

Gln Gly Thr Phe
20

<210> 670

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 670

Gln Pro Gln Gln Gln Leu Ala Gln Gly Thr Phe Leu Gln Pro His
1 5 10 15

Gln Ile Ala Gln
20

<210> 671

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 671

Gln Gly Thr Phe Leu Gln Pro His Gln Ile Ala Gln Leu Glu Val Met
1 5 10 15

Thr Ser Ile Ala
20

<210> 672

<211> 20

<212> PRT

<213> Artificial Sequence

<220>
 <223> peptide

 <400> 672
 Gln Ile Ala Gln Leu Glu Val Met Thr Ser Ile Ala Leu Arg Ile Leu
 1 5 10 15

 Pro Thr Met Cys
 20

 <210> 673
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 673
 Thr Ser Ile Ala Leu Arg Ile Leu Pro Thr Met Cys Ser Val Asn Val
 1 5 10 15

 Pro Leu Tyr Arg
 20

 <210> 674
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 674
 Pro Thr Met Cys Ser Val Asn Val Pro Leu Tyr Arg Thr Thr Thr Ser
 1 5 10 15

 Val Pro Phe Gly
 20

 <210> 675
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 675
 Pro Leu Tyr Arg Thr Thr Thr Ser Val Pro Phe Gly Val Gly Thr Gly
 1 5 10 15

 Val Gly Ala Tyr
 20

 <210> 676
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>

<223> peptide
 <400> 676
 Thr Ile Thr Arg Thr Phe Pro Ile Pro Thr Ile Ser Ser Asn Asn Asn
 1 5 10 15
 His His Phe Arg
 20
 <210> 677
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 677
 Pro Thr Ile Ser Ser Asn Asn Asn His His Phe Arg Ser Asn Ser Asn
 1 5 10 15
 His His Phe His
 20
 <210> 678
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 678
 His His Phe Arg Ser Asn Ser Asn His His Phe His Ser Asn Asn Asn
 1 5 10 15
 Gln Phe Tyr Arg
 20
 <210> 679
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide
 <400> 679
 His His Phe His Ser Asn Asn Asn Gln Phe Tyr Arg Asn Asn Asn Ser
 1 5 10 15
 Pro Gly His Asn
 20
 <210> 680
 <211> 20
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> peptide

<400> 680
 Gln Phe Tyr Arg Asn Asn Asn Ser Pro Gly His Asn Asn Pro Leu Asn
 1 5 10 15

Asn Asn Asn Ser
 20

<210> 681
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 681
 Pro Gly His Asn Asn Pro Leu Asn Asn Asn Asn Ser Pro Asn Asn Asn
 1 5 10 15

Ser Pro Ser Asn
 20

<210> 682
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 682
 Asn Asn Asn Ser Pro Asn Asn Asn Ser Pro Ser Asn His His Asn Asn
 1 5 10 15

Ser Pro Asn Asn
 20

<210> 683
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 683
 Ser Pro Ser Asn His His Asn Asn Ser Pro Asn Asn Asn Phe Gln Tyr
 1 5 10 15

His Thr His Pro
 20

<210> 684
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 684
 Ser Pro Asn Asn Asn Phe Gln Tyr His Thr His Pro Ser Asn His Lys
 1 5 10 15

Asn Leu Pro His
 20

<210> 685

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 685
 His Thr His Pro Ser Asn His Lys Asn Leu Pro His Thr Asn Asn Ile
 1 5 10 15

Gln Gln Gln Gln
 20

<210> 686

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 686
 Asn Leu Pro His Thr Asn Asn Ile Gln Gln Gln Gln Pro Pro Phe Ser
 1 5 10 15

Gln Gln Gln Gln
 20

<210> 687

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 687
 Gln Gln Gln Gln Pro Pro Phe Ser Gln Gln Gln Gln Pro Pro Phe Ser
 1 5 10 15

Gln Gln Gln Gln
 20

<210> 688

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 688
 Gln Gln Gln Gln Pro Pro Phe Ser Gln Gln Gln Gln Pro Val Leu Pro
 1 5 10 15

Gln Gln Ser Pro
 20

<210> 689
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 689
 Gln Gln Gln Gln Pro Val Leu Pro Gln Gln Ser Pro Phe Ser Gln Gln
 1 5 10 15

Gln Gln Leu Val
 20

<210> 690
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 690
 Gln Gln Ser Pro Phe Ser Gln Gln Gln Gln Leu Val Leu Pro Pro Gln
 1 5 10 15

Gln Gln Gln Gln
 20

<210> 691
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 691
 Gln Gln Leu Val Leu Pro Pro Gln Gln Gln Gln Gln Gln Leu Val Gln
 1 5 10 15

Gln Gln Ile Pro
 20

<210> 692
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 692

Gln Gln Gln Gln Gln Leu Val Gln Gln Gln Ile Pro Ile Val Gln Pro
 1 5 10 15

Ser Val Leu Gln
 20

<210> 693
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 693
 Gln Gln Ile Pro Ile Val Gln Pro Ser Val Leu Gln Gln Leu Asn Pro
 1 5 10 15

Cys Lys Val Phe
 20

<210> 694
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 694
 Ser Val Leu Gln Gln Leu Asn Pro Cys Lys Val Phe Leu Gln Gln Gln
 1 5 10 15

Cys Ser Pro Val
 20

<210> 695
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 695
 Cys Lys Val Phe Leu Gln Gln Gln Cys Ser Pro Val Ala Met Pro Gln
 1 5 10 15

Arg Leu Ala Arg
 20

<210> 696
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 696
 Cys Ser Pro Val Ala Met Pro Gln Arg Leu Ala Arg Ser Gln Met Trp

1	5	10	15
---	---	----	----

Gln Gln Ser Ser
20

<210> 697
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 697
 Arg Leu Ala Arg Ser Gln Met Trp Gln Gln Ser Ser Cys His Val Met
 1 5 10 15

Gln Gln Gln Cys
20

<210> 698
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 698
 Gln Gln Ser Ser Cys His Val Met Gln Gln Gln Cys Cys Gln Gln Leu
 1 5 10 15

Gln Gln Ile Pro
20

<210> 699
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 699
 Gln Gln Gln Cys Cys Gln Gln Leu Gln Gln Ile Pro Glu Gln Ser Arg
 1 5 10 15

Tyr Glu Ala Ile
20

<210> 700
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 700
 Gln Gln Ile Pro Glu Gln Ser Arg Tyr Glu Ala Ile Arg Ala Ile Ile
 1 5 10 15

Tyr Ser Ile Ile
20

<210> 701
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 701
Tyr Glu Ala Ile Arg Ala Ile Ile Tyr Ser Ile Ile Leu Gln Glu Gln
1 5 10 15

Gln Gln Gly Phe
20

<210> 702
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 702
Tyr Ser Ile Ile Leu Gln Glu Gln Gln Gln Gly Phe Val Gln Pro Gln
1 5 10 15

Gln Gln Gln Pro
20

<210> 703
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 703
Gln Gln Gly Phe Val Gln Pro Gln Gln Gln Gln Pro Gln Gln Ser Gly
1 5 10 15

Gln Gly Val Ser
20

<210> 704
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 704
Gln Gln Gln Pro Gln Gln Ser Gly Gln Gly Val Ser Gln Ser Gln Gln

1	5	10	15
---	---	----	----

Gln Ser Gln Gln
20

<210> 705
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 705
 Gln Gly Val Ser Gln Ser Gln Gln Gln Ser Gln Gln Gln Leu Gly Gln
 1 5 10 15

Cys Ser Phe Gln
20

<210> 706
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 706
 Gln Ser Gln Gln Gln Leu Gly Gln Cys Ser Phe Gln Gln Pro Gln Gln
 1 5 10 15

Gln Leu Gly Gln
20

<210> 707
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 707
 Cys Ser Phe Gln Gln Pro Gln Gln Gln Leu Gly Gln Gln Pro Gln Gln
 1 5 10 15

Gln Gln Gln Gln
20

<210> 708
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 708
 Gln Leu Gly Gln Gln Pro Gln Gln Gln Gln Gln Gln Val Leu Gln
 1 5 10 15

Gly Thr Phe Leu
20

<210> 709
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 709
Gln Gln Gln Gln Gln Val Leu Gln Gly Thr Phe Leu Gln Pro His Gln
1 5 10 15

Ile Ala His Leu
20

<210> 710
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 710
Gly Thr Phe Leu Gln Pro His Gln Ile Ala His Leu Glu Ala Val Thr
1 5 10 15

Ser Ile Ala Leu
20

<210> 711
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 711
Ile Ala His Leu Glu Ala Val Thr Ser Ile Ala Leu Arg Thr Leu Pro
1 5 10 15

Thr Met Cys Ser
20

<210> 712
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 712
Ser Ile Ala Leu Arg Thr Leu Pro Thr Met Cys Ser Val Asn Val Pro
1 5 10 15

Leu Tyr Ser Ala
20

<210> 713
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 713
Thr Met Cys Ser Val Asn Val Pro Leu Tyr Ser Ala Thr Thr Ser Val
1 5 10 15

Pro Phe Gly Val
20

<210> 714
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 714
Leu Tyr Ser Ala Thr Thr Ser Val Pro Phe Gly Val Gly Thr Gly Val
1 5 10 15

Gly Ala Tyr

<210> 715
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 715
Ser Cys Ile Ser Gly Leu Glu Arg Pro Trp Gln Gln Gln Pro Leu Pro
1 5 10 15

Pro Gln Gln Ser
20

<210> 716
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 716
Pro Trp Gln Gln Gln Pro Leu Pro Pro Gln Gln Ser Phe Ser Gln Gln
1 5 10 15

Pro Pro Phe Ser
20

<210> 717
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 717
Pro Gln Gln Ser Phe Ser Gln Gln Pro Pro Phe Ser Gln Gln Gln Gln
1 5 10 15

Gln Pro Leu Pro
20

<210> 718
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 718
Pro Pro Phe Ser Gln Gln Gln Gln Gln Pro Leu Pro Gln Gln Pro Ser
1 5 10 15

Phe Ser Gln Gln
20

<210> 719
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 719
Gln Pro Leu Pro Gln Gln Pro Ser Phe Ser Gln Gln Gln Pro Pro Phe
1 5 10 15

Ser Gln Gln Gln
20

<210> 720
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 720
Phe Ser Gln Gln Gln Pro Pro Phe Ser Gln Gln Gln Pro Ile Leu Ser
1 5 10 15

Gln Gln Pro Pro

20

<210> 721
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 721
Ser Gln Gln Gln Pro Ile Leu Ser Gln Gln Pro Pro Phe Ser Gln Gln
1 5 10 15

Gln Gln Pro Val
20

<210> 722
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 722
Ala Thr Ala Ala Arg Glu Leu Asn Pro Ser Asn Lys Glu Leu Gln Ser
1 5 10 15

Pro Gln Gln Ser
20

<210> 723
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 723
Pro Ser Asn Lys Glu Leu Gln Ser Pro Gln Gln Ser Phe Ser Tyr Gln
1 5 10 15

Gln Gln Pro Phe
20

<210> 724
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 724
Pro Gln Gln Ser Phe Ser Tyr Gln Gln Gln Pro Phe Pro Gln Gln Pro
1 5 10 15

Tyr Pro Gln Gln
20

<210> 725
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 725
 Gln Gln Pro Phe Pro Gln Gln Pro Tyr Pro Gln Gln Pro Tyr Pro Ser
 1 5 10 15

Gln Gln Pro Tyr
 20

<210> 726
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 726
 Tyr Pro Gln Gln Pro Tyr Pro Ser Gln Gln Pro Tyr Pro Ser Gln Gln
 1 5 10 15

Pro Phe Pro Thr
 20

<210> 727
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 727
 Gln Gln Pro Tyr Pro Ser Gln Gln Pro Phe Pro Thr Pro Gln Gln Gln
 1 5 10 15

Phe Pro Glu Gln
 20

<210> 728
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 728
 Pro Phe Pro Thr Pro Gln Gln Gln Phe Pro Glu Gln Ser Gln Gln Pro
 1 5 10 15

Phe Thr Gln Pro
 20

<210> 729
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 729
 Phe Pro Glu Gln Ser Gln Gln Pro Phe Thr Gln Pro Gln Gln Pro Thr
 1 5 10 15

Pro Ile Gln Pro
 20

<210> 730
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 730
 Phe Thr Gln Pro Gln Gln Pro Thr Pro Ile Gln Pro Gln Gln Pro Phe
 1 5 10 15

Pro Gln Gln Pro
 20

<210> 731
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 731
 Pro Ile Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Pro Gln
 1 5 10 15

Gln Pro Phe Pro
 20

<210> 732
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

<400> 732
 Pro Gln Gln Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln
 1 5 10 15

Pro Phe Pro Trp
 20

<210> 733
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 733
 Gln Pro Phe Pro Gln Pro Gln Gln Pro Phe Pro Trp Gln Pro Gln Gln
 1 5 10 15

 Pro Phe Pro Gln
 20

 <210> 734
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 734
 Pro Phe Pro Trp Gln Pro Gln Gln Pro Phe Pro Gln Thr Gln Gln Ser
 1 5 10 15

 Phe Pro Leu Gln
 20

 <210> 735
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 735
 Pro Phe Pro Gln Thr Gln Gln Ser Phe Pro Leu Gln Pro Gln Gln Pro
 1 5 10 15

 Phe Pro Gln Gln
 20

 <210> 736
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 736
 Phe Pro Leu Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Pro
 1 5 10 15

 Phe Pro Gln Pro
 20

 <210> 737

<211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 737
 Phe Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln Pro Gln Leu Pro Phe
 1 5 10 15

 Pro Gln Gln Ser
 20

 <210> 738
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 738
 Phe Pro Gln Pro Gln Leu Pro Phe Pro Gln Gln Ser Glu Gln Ile Ile
 1 5 10 15

 Pro Gln Gln Leu
 20

 <210> 739
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 739
 Pro Gln Gln Ser Glu Gln Ile Ile Pro Gln Gln Leu Gln Gln Pro Phe
 1 5 10 15

 Pro Leu Gln Pro
 20

 <210> 740
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 740
 Pro Gln Gln Leu Gln Gln Pro Phe Pro Leu Gln Pro Gln Gln Pro Phe
 1 5 10 15

 Pro Gln Gln Pro
 20

 <210> 741
 <211> 20

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 741
 Pro Leu Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Pro Phe
 1 5 10 15

 Pro Gln Pro Gln
 20

 <210> 742
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 742
 Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Ile Pro
 1 5 10 15

 Val Gln Pro Gln
 20

 <210> 743
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 743
 Pro Gln Pro Gln Gln Pro Ile Pro Val Gln Pro Gln Gln Ser Phe Pro
 1 5 10 15

 Gln Gln Ser Gln
 20

 <210> 744
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 744
 Val Gln Pro Gln Gln Ser Phe Pro Gln Gln Ser Gln Gln Ser Gln Gln
 1 5 10 15

 Pro Phe Ala Gln
 20

 <210> 745
 <211> 20
 <212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 745

Gln Gln Ser Gln Gln Ser Gln Gln Pro Phe Ala Gln Pro Gln Gln Leu
1 5 10 15

Phe Pro Glu Leu
20

<210> 746

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 746

Pro Phe Ala Gln Pro Gln Gln Leu Phe Pro Glu Leu Gln Gln Pro Ile
1 5 10 15

Pro Gln Gln Pro
20

<210> 747

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 747

Phe Pro Glu Leu Gln Gln Pro Ile Pro Gln Gln Pro Gln Gln Pro Phe
1 5 10 15

Pro Leu Gln Pro
20

<210> 748

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 748

Pro Gln Gln Pro Gln Gln Pro Phe Pro Leu Gln Pro Gln Gln Pro Phe
1 5 10 15

Pro Gln Gln Pro
20

<210> 749

<211> 20

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> peptide

 <400> 749
 Pro Leu Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Pro Phe
 1 5 10 15

 Pro Gln Gln Pro
 20

<210> 750
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

 <400> 750
 Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Ser Phe
 1 5 10 15

 Pro Gln Gln Pro
 20

<210> 751
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

 <400> 751
 Pro Gln Gln Pro Gln Gln Ser Phe Pro Gln Gln Pro Gln Gln Pro Tyr
 1 5 10 15

 Pro Gln Gln Gln
 20

<210> 752
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide

 <400> 752
 Pro Gln Gln Pro Gln Gln Pro Tyr Pro Gln Gln Gln Pro Tyr Gly Ser
 1 5 10 15

 Ser Leu Thr Ser
 20

<210> 753
 <211> 16
 <212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 753

Pro Gln Gln Gln Pro Tyr Gly Ser Ser Leu Thr Ser Ile Gly Gly Gln
1 5 10 15

<210> 754

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 754

Ala Arg Gln Leu Asn Pro Ser Asp Gln Glu Leu Gln Ser Pro Gln Gln
1 5 10 15

Leu Tyr Pro Gln
20

<210> 755

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 755

Gln Glu Leu Gln Ser Pro Gln Gln Leu Tyr Pro Gln Gln Pro Tyr Pro
1 5 10 15

Gln Gln Pro Tyr
20

<210> 756

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 756

Ser Arg Leu Leu Ser Pro Arg Gly Lys Glu Leu His Thr Pro Gln Glu
1 5 10 15

Gln Phe Pro Gln
20

<210> 757

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 757

Lys Glu Leu His Thr Pro Gln Glu Gln Phe Pro Gln Gln Gln Gln Phe
1 5 10 15

Pro Gln Pro Gln
20

<210> 758

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 758

Gln Phe Pro Gln Gln Gln Gln Phe Pro Gln Pro Gln Gln Phe Pro Gln
1 5 10 15